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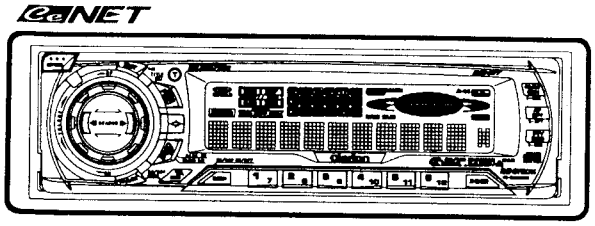
Service Manual



(DRX8575Rz)

RDS-EON/FM/MW/LW Radio
CD Combination
with MD/CD Changer/TV/DAB
Control

Model DRX8575Rz
(PE-2172E-A)

Model DRX8575RWz
(PE-2172E-B / Grained panel)

■SPECIFICATIONS

Radio section

Tuning system:	PLL synthesizer tuner	
Receiving frequencies:	FM:	87.5 to 108MHz (0.05MHz steps)
	MW:	531 to 1602kHz(9kHz steps)
	LW:	153 to 279kHz(3kHz steps)

CD player section

System:	Compact disc digital audio system
Frequency response:	5Hz to 20kHz(±1dB)
Signal to noise ratio:	100dB(1kHz)IHF-A
Dynamic range:	95dB(1kHz)
Distortion:	0.01%

General

Max. power output:	4×45W
Power supply voltage:	14.4V DC(10.8 to 15.6V allowable) negative ground
Power consumption:	Less than 15A
Speaker impedance:	4Ω(4Ω to 8Ω allowable)
Auto antenna rated current:	500mA or less
Dimensions(mm):	Main unit 178(W)×50(H)×155(D)
	Remote control unit 44(W)×110(H)×27(D)
Weight:	Main unit 1.7kg
	Remote control unit 30g(including battery)

※ Specifications and design are subject to change without notice for further improvement.

■COMPONENTS

PE-2172E-A / PE-2172E-B

Main unit	—————	1
Remote control	RCB-130-700	1
Battery(SUM-3)	—————	2
Mounting bracket	300-7745-00	1
DCP case	335-6035-02	1
Outer escutcheon(PE-2172E-A)	370-5774-00	1
Outer escutcheon(PE-2172E-B)	370-5774-01	1
Parts bag	—————	
Removal tool	331-2548-00	2
Spacer	345-3653-01	1
Screw	716-0726-01	1
A-lead	850-6681-00	1

■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.
   The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.
   For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.
   If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.
3. Check for safety after repair.
   Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.
   If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.
   Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur.
   If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
5. Cautions regarding chips.
   Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.
6. Cautions in handling flexible PWB
   Before working with a soldering iron, make sure that the iron tip temperature is around 270℃. Take care not to apply the iron tip repeatedly(more than three times)to the same patterns. Also take care not to apply the tip with force.
7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.
8. Cautions in checking that the optical pickup lights up.
   The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.
9. Cautions in handling the optical pickup
   The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

9-1. Laser diode
   The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

9-2. Actuator
   The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

9-3. Cleaning the lens
   Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropylalcohol to lens paper and wipe the lens gently.

■NOTES

1. We cannot supply PWB with component parts in principle. When a circuit on PWB has failure , please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

2. For VW and Audi vehicles, change the position of fuse installation as shown on the diagram. (Figure 1)

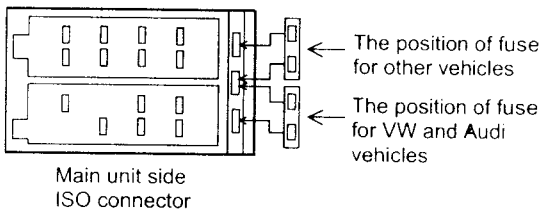


Figure 1

3. The lead include with the unit must be connected to the specified position of the vehicle's ISO connector in order to use the "triggered audio mute for cellular telephones" function. (Figure 2)

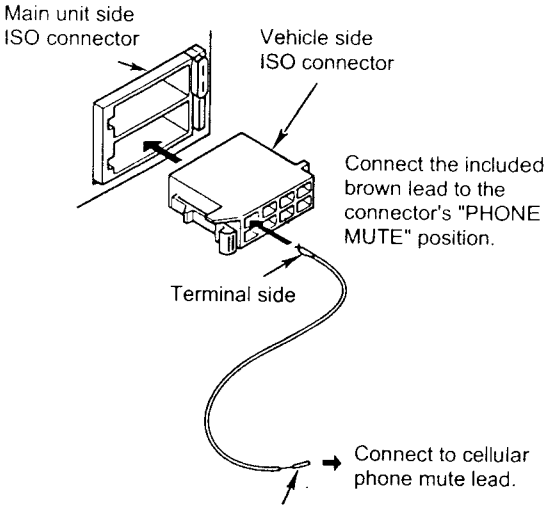

Main unit side ISO connector
Vehicle side ISO connector
Connect the included brown lead to the connector's "PHONE MUTE" position.
Terminal side
Connect to cellular phone mute lead.
Fasten using insulating tape, etc. , to prevent short-circuits at the connection.

Figure 2

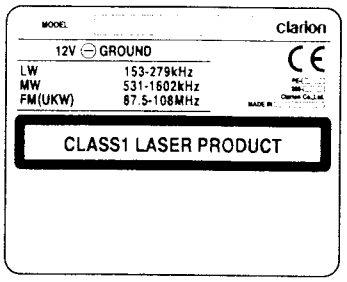
■ADJUSTMENT

FM section

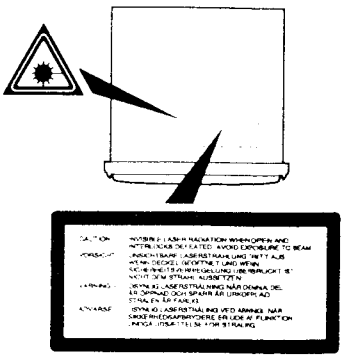
Item	Procedure	Measuring instrument
S-meter	1. Input the 98.1MHz/30dB μ(400Hz-MOD 100%)signal. 2. Turn on the power switch and press the ENT button and CH6 button at the same time for about 2 secounds.(TEST MODE) 3. Adjust the reading of LCD indicator to 『30----00』 (3.0V±0.2V) by VR1.	SG

■CAUTIONS

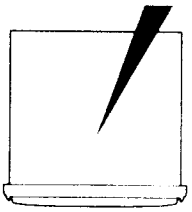
This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT". To use this model properly, read this Owner's Manual carefully and keep this manual for your future reference. In case of any trouble with this player, please contact your nearest "AUTHORIZED service station". To prevent direct exposure to the laser beam, do not try to open the enclosure.



Top view of main unit



Bottom view of main unit



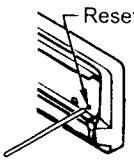
■ERROR DISPLAYS

If an error occurs, one of the following displays is displayed.
Take the measures described below to eliminate the problem.

	Error display	Cause	Measure
CD	ERROR 2	A CD is caught inside the CD deck and is not ejected.	This is a failure of CD deck's mechanism.
	ERROR 3	A CD cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped-disc.
	ERROR 6	A CD is loaded upside-down inside the CD deck and does not play.	Eject the disc then reload it properly.
CD CHANGER	ERROR 2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism.
	ERROR 3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped-disc.
	ERROR 6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
MD CHANGER	ERROR H	Displayed when the temperature in the MD changer is too high and playback has been stopped automatically.	Lower the surrounding temperature and wait for a while to cool off MD changer.
	ERROR 2	An MD inside the MD changer is not loaded.	This is a failure of MD changer's mechanism.
	ERROR 3	An MD inside the MD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped-disc.
	ERROR 6	An MD inside the MD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
		Displayed when a non-recorded MD is loaded in the MD changer.	Load a pre-recorded MD in the MD changer.

If an error display other than the ones described above appears, press the reset button.

■TROUBLESHOOTING

Problem	Cause	Measure
Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Turn off the power, then press the OPEN button and remove the DCP. Press the reset button for about 2 seconds with a thin rod 

■ EXPLANATION OF IC

■ MC4558IDTR 051-3028-90 Dual Operational Amplifiers

1. Outward Form : 8 pins SOP

2. Terminal Description

pin 1 : Output of Amplifier A.
pin 2 : Inverted input of Amplifier A.
pin 3 : Non-inverted input of Amplifier A.
pin 4 : Negative supply voltage.
pin 5 : Non-inverted input of Amplifier B.
pin 6 : Inverted input of Amplifier B.
pin 7 : Output of Amplifier B.
pin 8 : Positive supply voltage.

■ MC33078DTR 051-3029-90 Dual Operational Amplifiers

1. Outward Form : 8 pins SOP

2. Terminal Description

pin 1 : Output of Amplifier A.
pin 2 : Inverted input of Amplifier A.
pin 3 : Non-inverted input of Amplifier A.
pin 4 : Negative supply voltage.
pin 5 : Non-inverted input of Amplifier B.
pin 6 : Inverted input of Amplifier B.
pin 7 : Output of Amplifier B.
pin 8 : Positive supply voltage

■ MC33079DTR 051-3030-90 Dual Operational Amplifiers

1. Outward Form : 8 pins SOP

2. Terminal Description

pin 1 : Output of Amplifier A.
pin 2 : Inverted input of Amplifier A.
pin 3 : Non-inverted input of Amplifier A.
pin 4 : Negative supply voltage.
pin 5 : Non-inverted input of Amplifier B.
pin 6 : Inverted input of Amplifier B.
pin 7 : Output of Amplifier B.
pin 8 : Positive supply voltage.

■ TEA6320T 051-5015-90 Sound Fader Controller

1. Outward Form : 32 pins SOP

2. Function : Source selector for four stereo and one mono inputs, Volume/Balance/Fader/Bass/Treble Control, Loudness, I2C-bus.

3. Terminal Description

pin 1 : SDA : Serial data input/output.
pin 2 : GND : Ground.
pin 3 : OUT LR : Left Rear Output.
pin 4 : OUT LF : Left Front Output.
pin 5 : Tre L : Left channel Treble control capacitor, or input from an external equalizer.
pin 6 : Bass 2 L : Left channel Bass control capacitor, or output to an external equalizer.
pin 7 : Bass 1 L : Left channel Bass control capacitor.
pin 8 : I Volu L : Left channel Volume input.
pin 9 : I Loud L : Left channel Loudness input.
pin 10 : Q Selec L : Left channel source selector output.
pin 11 : I D L : Left channel source selector input D.
pin 12 : MUTE : Mute signal input.
pin 13 : I C L : Left channel source selector input C.
pin 14 : I MONO : Mono signal source selector input.
pin 15 : I B L : Left channel source selector input B.
pin 16 : I A L : Left channel source selector input A.
pin 17 : I A R : Right channel source selector input A.
pin 18 : I B R : Right channel source selector input B.
pin 19 : CAP : Electronic filtering for supply.
pin 20 : I C R : Right channel source selector input C.
pin 21 : Vref : Reference voltage (0.5VCC).
pin 22 : I D R : Right channel source selector input D.
pin 23 : Q Selec R : Right channel source selector output.
pin 24 : I Loud R : Right channel Loudness input.
pin 25 : I Volu R : Right channel Volume input.
pin 26 : Bass 1 R : Right channel Bass control capacitor.
pin 27 : Bass 2 R : Right channel Bass control capacitor, or output to an external equalizer.
pin 28 : Tre R : Right channel Treble control capacitor, or input from an external equalizer.
pin 29 : OUT RF : Right Front Output.
pin 30 : OUT RR : Right Rear Output.
pin 31 : VCC : Supply voltage.
pin 32 : SCL : Serial clock input.

■ MC33464 051-5415-08 Voltage detector 2.7V Open Drain

1. Outward Form : 5 pins SOP

2. Terminal Description

pin 1 : Reset output (open drain).
pin 2 : Input termianl.
pin 3 : Ground.
pin 4 : Not in use
pin 5 : Not in use.

■ PCF1252-2T 051-5416-08 Voltage detector 4.25V type.

1. Outward Form : 8 pins SOP

2. Terminal Description

pin 1 : CT : Connection for the external capacitor.
pin 2 : SELECT : Select polarity or external reset input.
pin 3 : COMIN : Comparator input.
pin 4 : VSS : Ground.
pin 5 : COMP OUT : Comparator output.
pin 6 : RESET : Reset output.
pin 7 : POWF_ : Power failure signal output.
pin 8 : VDD : Supply voltage.

■ TA2096FN 051-5704-00 Digital servo head amplifier for CD

1. Outward Form : 30 pins SOP

2. Terminal Description

pin 1 : VCC : Positive supply voltage.
pin 2 : FN2I : Main beam amplifier input.
pin 3 : FN1I : Main beam amplifier input.
pin 4 : FP1I : Main beam amplifier input.
pin 5 : FP2I : Main beam amplifier input.
pin 6 : TPI : Sub beam amplifier input.
pin 7 : TNI : Sub beam amplifier input.
pin 8 : MDI : Monitor photo diode amplifier input.
pin 9 : LDO : Laser diode amplifier output.
pin 10 : SEL : Laser diode control signal input, and APC on/off signal input.
pin 11 : TEB : Tracking error balance adjust signal input.
pin 12 : 2VRO : Reference voltage output. 2Vref.
pin 13 : TEN : Tracking error detector inverted input.
pin 14 : TEO : Tracking error detector output.
pin 15 : SBAD : Sub beam add signal output.
pin 16 : FEO : Focus error detector output.
pin 17 : FEN : Focus error detector inverted input.
pin 18 : FEPO : Main beam amplifier output.
pin 19 : VRO : Reference voltage output. Vref.
pin 20 : RFRP : Tracking signal detector output.
pin 21 : BTC : Input terminal.
pin 22 : RFCT : RFRP signal center level output.
pin 23 : PKC : Input terminal.
pin 24 : SEB : Input terminal.
pin 25 : RFGO : RF signal output.
pin 26 : AGCIN : RF signal automatic gain controller input.
pin 27 : RFO : RF detector output.
pin 28 : GND : Ground.
pin 29 : RFN2 : RF signal gain change signal input.
pin 30 : RFGC : RF signal gain control signal input.

■ TA2058F 051-6026-08 CD Mechanism Driver

1. Outward Form : 20 pins SOP with fins

2. Function : BTL Driver × 4

3. Terminal Description

pin 1 : S VCC : Positive supply voltage for the small signal stages.
pin 2 : IN 1 : Input terminal of amplifier 1.

pin 3 : P VCC 1 : Positive supply voltage for the power stage of amplifier 1.
pin 4 : OUT 1+ : Non-inverted output terminal of amplifier 1.
pin 5 : OUT 1− : Inverted output terminal of amplifier 1.
pin 6 : OUT 2− : Inverted output terminal of amplifier 2.
pin 7 : OUT 2+ : Non-inverted output terminal of amplifier 2.
pin 8 : P VCC 2 : Positive supply voltage for the power stage of amplifier 2.
pin 9 : IN 2 : Input terminal of amplifier 2.
pin 10 : Vref : Reference voltage input. Vin = Vref : Non-input-voltage.
pin 11 : VCI : Decide the standard voltage of output.
pin 12 : IN 3 : Input terminal of amplifier 3.
pin 13 : P VCC 3 : Positive supply voltage for the power stage of amplifier 3.
pin 14 : OUT 3+ : Non-inverted output terminal of amplifier 3.
pin 15 : OUT 3− : Inverted output terminal of amplifier 3.
pin 16 : OUT 4− : Inverted output terminal of amplifier 4.
pin 17 : OUT 4+ : Non-inverted output terminal of amplifier 4.
pin 18 : P VCC 4 : Positive supply voltage for the power stage of amplifier 4.
pin 19 : IN 4 : Input terminal of amplifier 4.
pin 20 : S GND : Ground of the all small signal stages.

※ The fins are ground of all power stages.

■ BA6283N 051-6027-00 Digital controled Motor Driver

1. Outward Form : 9 pins SIP

2. Function : Forward Rotation, Reverse Rotation, Brake, Free

3. Terminal Description

pin 1 : OUT 2 : Motor drive output 2. Ref. Table 1.
pin 2 : RNF : Output stage ground,Resistor connection terminal to detect the output current.
pin 3 : OUT 1 : Motor drive output 1. Ref. Table 1.
pin 4 : VM : Positive supply voltage for the motor drivers.
pin 5 : GND : Ground.
pin 6 : VCC : Positive supply voltage.
pin 7 : F IN : Logic input. Ref. Table 1.
pin 8 : GND : Ground.
pin 9 : R IN : Logic input. Ref. Table 1.

Table 1. Drive mode table.

Mode name	F IN (pin7)	R IN (pin9)	OUT 1 (pin3)	OUT 2 (pin1)
Forward Rotation	H	L	H	L
Reverse Rotation	L	H	L	H
Brake	H	H	L	L
Free	L	L	open	open

■ TC9462 051-6342-00 Digital servo for CD

1. Outward Form : 100 pins QFP

2. Function : Sync. separation, EFM, Error correction

3. Terminal Description

pin 1 : TEST0 : IN : Not in use.
pin 2 : HSO : O : Playback mode flag output. Ref. Table 1.
pin 3 : UHSO : O : Playback mode flag output. Ref. Table 1.
pin 4 : EMPH : O : Emphasis flag output of Sub cord Q data. "H"= emphasis ON.
pin 5 : LR CK : O : Channel clock output. (44.1kHz)
pin 6 : VSS : — : Ground.
pin 7 : B CK : O : Bit clock output. (1.4122MHz)
pin 8 : A OUT : O : Audio data output.
pin 9 : D OUT : O : Digital output.
pin 10 : MBOV : O : Buffer memory over signal output.
pin 11 : IPF : O : Compensation flag output.
pin 12 : SBOK : O : CRCC judgement output of Sub Q data. "H"=OK.
pin 13 : CLOCK : I/O : Clock output/input to read Sub cord P to W.
pin 14 : VDD : — : Positive supply voltage terminal.
pin 15 : VSS : — : Ground.
pin 16 : DATA : O : Sub cord P to W data output.
pin 17 : SF SY : O : Frame synchronize signal output.
pin 18 : SB SY : O : Sub cord block synchronize signal output.
pin 19 : SP CK : O : Clock signal output to read processor status. (176.4kHz)
pin 20 : SP DA : O : Processor status signal output.
pin 21 : COFS : O : Correction frame clock output. (7.35kHz)
pin 22 : MONIT : O : Not in use.
pin 23 : VDD : — : Positive supply voltage terminal.
pin 24 : TESIO0 : IN : Not in use.
pin 25 : P2Vref : — : (Reference voltage)×2 terminal for PLL.
pin 26 : HSSW : O : pin26=Vref : ×2-speed or ×4-speed.
pin 27 : Z DET : O : 0 flag output of 1 bit DAC.
pin 28 : PDO : O : Error signal output. (EFM - PLCK)
pin 29 : TMAX S : O : TMAX detect signal output.
pin 30 : TMAX : O : TMAX detect signal output.
pin 31 : LPF N : IN : Inverted input of amplifier for LPF.
pin 32 : LPF O : O : Output of amplifier for LPF.
pin 33 : PVref : — : Reference voltage terminal for PLL.
pin 34 : VCOref : — : Reference voltage terminal for VCO.
pin 35 : VCO F : O : Output of filter for VCO.
pin 36 : AVSS : — : Analog ground.
pin 37 : SLCO : O : Output of DAC for data slice level.
pin 38 : RF IN : IN : RF signal input.
pin 39 : AVDD : — : Positive voltage supply for analog.
pin 40 : RFCT : IN : Center level input of RFRP signal.
pin 41 : RFZI : IN : RFRP 0 cross.
pin 42 : RFRP : IN : RF ripple signal input.
pin 43 : FEI : IN : Focus error signal input.
pin 44 : SBAD : IN : Sub beam addition signal input.
pin 45 : TSIN : IN : Not in use.
pin 46 : TEI : IN : Tracking error input.
pin 47 : TEZI : IN : Tracking error , 0 cross input.
pin 48 : FO O : O : Focusing equalizer output.
pin 49 : TR O : O : Tracking equalizer output.
pin 50 : Vref : — : Reference voltage for analog.
pin 51 : RFGC : O : RF gain control signal output.
pin 52 : TEBC : O : Tracking balance control signal output.
pin 53 : FM O : O : Field equalizer output.
pin 54 : FVO : O : Field error or Field search EQ output.
pin 55 : DMO : O : Disc equalizer output.
pin 56 : 2Vref : — : 2 × Vref for analog.
pin 57 : SEL : O : Laser ON and UHS="H" : output "H"
pin 58 : FLG A : O : Monitor signal output.
pin 59 : FLG B : O : Monitor signal output.
pin 60 : FLG C : O : Monitor signal output.
pin 61 : FLG D : O : Monitor signal output.
pin 62 : VDD : — : Positive supply voltage.
pin 63 : VSS : — : Ground.
pin 64 : IO 0 : I/O : I/O port.
pin 65 : IO 1 : I/O : I/O port.
pin 66 : IO 2 : I/O : I/O port.
pin 67 : IO 3 : I/O : I/O port.
pin 68 : DMOUT : IN : Not in use.
pin 69 : CKSE : IN : Not in use.
pin 70 : DACT : IN : Not in use.
pin 71 : TESIN : IN : Not in use.
pin 72 : TESIO1 : IN : Not in use.
pin 73 : VSS : — : Ground.
pin 74 : PX I : IN : DSP oscillator input.
pin 75 : PX O : O : DSP oscillator output.
pin 76 : VDD : — : Positive supply voltage.
pin 77 : X VSS : — : Ground for system oscillator clock.
pin 78 : X I : IN : System clock oscillator input.
pin 79 : X O : O : System clock oscillator output.
pin 80 : X VDD : — : Positive supply voltage for system clock oscillator.
pin 81 : D VSR : — : Positive supply voltage for right channel DAC.
pin 82 : R O : O : Right channel data non-inverted output.
pin 83 : D VDD : — : Positive supply voltage for DAC.
pin 84 : D Vref : — : Reference voltage.
pin 85 : L O : O : Left channel data non-inverted output.
pin 86 : D VS L : — : Positive supply voltage for left channel DAC.
pin 87 : TEST 1 : IN : Not in use.
pin 88 : TEST 2 : IN : Not in use.
pin 89 : TEST 3 : IN : Not in use.
pin 90 : BUS 0 : I/O : Data bus to micro computer.
pin 91 : BUS 1 : I/O : Data bus to micro computer.
pin 92 : BUS 2 : I/O : Data bus to micro computer.
pin 93 : BUS 3 : I/O : Data bus to micro computer.
pin 94 : VDD : — : Positive supply voltage.
pin 95 : VSS : — : Ground.
pin 96 : BUS CK : IN : Clock input for data bus.
pin 97 : CCE : IN : Chip enable signal input. Negative logic.
pin 98 : TEST 4 : IN : Not in use.
pin 99 : TS MOD : IN : Not in use.
pin100 : RST : IN : Reset signal input. Negative logic.

Table 1. Playback speed flag.

Play back speed	UHSO(pin3)	HSO(pin2)
Normal speed × 1	H	H
Normal speed × 2	H	L
Normal speed × 4	L	H
.....	L	L

■ 74HC4066DT 051-7247-08 4 channels Analog Switches

1. Outward Form : 14 pins SOP

2. Terminal Description

pin 1 : 1Y
pin 2 : 1Z : Channel 1 Input / Output.
pin 3 : 2Z : Channel 1 Input / Output.
pin 4 : 2Y : Channel 2 Input / Output.
pin 5 : 2E : Channel 2 Enable signal input. Active High
pin 6 : 3E : Channel 3 Enable signal input. Active High
pin 7 : GND Ground.
pin 8 : 3Y : Channel 3 Input / Output.
pin 9 : 3Z : Channel 3 Input / Output.
pin 10 : 4Z : Channel 4 Input / Output.
pin 11 : 4Y : Channel 4 Input / Output.
pin 12 : 4E : Channel 4 Enable signal input. Active High.
pin 13 : 1E : Channel 1 Enable signal input. Active High.
pin 14 : VCC : Positive supply voltage.

■ M93C46-WMN6T 051-9400-38 EEP ROM

1. Outward Form : 8 pins SOP

2. Function : 1k bit Electric Erasable Programable Read Only Memory

3. Terminal Description

pin 1 : CS : Chip select input terminal.
pin 2 : SK : Serial clock terminal.
pin 3 : DI : Serial data input terminal.
pin 4 : DO : Serial data output terminal.
pin 5 : VSS : Ground terminal.
pin 6 : ORG : Organisation select.
pin 7 : N.C. : Not in use.
pin 8 : VCC : Positive supply voltage.

■ M30620MC-337GP 052-3348-00 Tuner / CD Controller (Ce-NET)

1. Outward Form : 100 pins QFP

2. Function : CD mechanism control, PLL IC control, Electric volume IC control, Ce-NET

3. Terminal Description

pin 1 : N.C. : IN : Not in use.
pin 2 : N.C. : IN : Not in use.
pin 3 : SBSY : IN : Sub Q data request signal input to CD IC.
pin 4 : N.C. : IN : Not in use.
pin 5 : RDS CLK : IN : Clock pulse input of RDS
pin 6 : BYTE : IN : Connect to ground.
pin 7 : CNVSS : IN : Connect to ground.
pin 8 : SUB CLK IN : IN : Crystal connection. (32.768kHz)
pin 9 : SUB CLK OUT : O : Crystal connection. (32.768kHz)
pin 10 : RESET_ : IN : Reset signal input. Negative logic.
pin 11 : X OUT : O : Crystal connection. (10MHz)
pin 12 : VSS : - : Ground.
pin 13 : X IN : IN : Crystal connection. (10MHz)
pin 14 : VCC : - : Positive supply voltage.
pin 15 : N.C. : IN : Not in use.
pin 16 : ACC DET : IN : ACC ON signal input.
pin 17 : B/U DET_ : IN : Backup voltage OFF signal input. "L"= Backup OFF
pin 18 : KEY INT_ : IN : Interrupt signal input of FUNC/EJECT key and DCP take off switch.
pin 19 : 27pinCONNECT : IN : Connect to pin 27.
pin 20 : N.C. : IN : Not in use.
pin 21 : N.C. : IN : Not in use.
pin 22 : N.C. : O : Not in use.
pin 23 : DISP RESET : O : Display IC reset signal output.
pin 24 : PULSE DIMM : O : Pulse dimmer / Back light LED ON signal output.
pin 25 : N.C. : IN : Not in use.
pin 26 : N.C. : O : Not in use.
pin 27 : IE BUS RX : IN : IE Bus communication line.
pin 28 : IE BUS TX : O : IE Bus communication line.
pin 29 : N.C. : O : Not in use.
pin 30 : N.C. : IN : Not in use.
pin 31 : INITIAL OUT : O : Memory clear signal output to EEPROM.
pin 32 : PLL CE : O : PLL chip enable signal output.
pin 33 : PLL DO : O : PLL serial data output.
pin 34 : PLL DI : IN : PLL serial data input.
pin 35 : PLL SCK : O : PLL serial clock output.
pin 36 : FM STEREO : IN : FM stereo detection signal input. Negative logic.
pin 37 : NON FADER 1 : O : Non fader volume control signal output. Ref. Table 1.
pin 38 : NON FADER 2 : O : Non fader volume control signal output. Ref. Table 1.
pin 39 : NON FADER 3 : O : Non fader volume control signal output. Ref. Table 1.
pin 40 : N.C. : IN : Not in use.
pin 41 : N.C. : IN : Not in use.
pin 42 : VOLUME CLK : O : Serial clock output to Electric volume.
pin 43 : VOLUME DO : O : Serial data output to Electric volume.
pin 44 : N.C. : O : Not in use.
pin 45 : CATS LED : O : CATS LED control signal output.
pin 46 : BUC 0 : O : Data output terminal to CD IC.
pin 47 : BUC 1 : O : Data output terminal to CD IC.
pin 48 : BUC 2 : O : Data output terminal to CD IC.
pin 49 : BUC 3 : O : Data output terminal to CD IC.
pin 50 : BUC K : O : Clock output terminal to CD IC.
pin 51 : CCE_ : O : Chip enable signal output terminal.
pin 52 : RST_ : O : Reset signal output to CD IC.
pin 53 : CHAK SW : IN : "L"= Disc is loaded and the Chuking Switch is ON.
pin 54 : TR A : IN : Photo sensor signal input.
pin 55 : TR B : IN : Photo sensor signal input.
pin 56 : TR C : IN : Photo sensor signal input.
pin 57 : MCCW : O : Loading motor control output. Ref. Table 2.
pin 58 : MCW : O : Loading motor control output. Ref. Table 2.
pin 59 : CD 8V : O : Power supply ON signal output for the Loading motor and the Photo sensors.
pin 60 : VCC : - : Positive supply voltage.
pin 61 : CD-5V : O : Power supply control signal output for the CD-IC / DAC-IC.
pin 62 : VSS : - : Ground.
pin 63 : N.C. : IN : Not in use.
pin 64 : N.C. : IN : Not in use.
pin 65 : N.C. : IN : Not in use.
pin 66 : N.C. : IN : Not in use.
pin 67 : N.C. : IN : Not in use.
pin 68 : N.C. : IN : Not in use.
pin 69 : NAVI MUTE : O : Mute signal output for the audio signal of Navigation.
pin 70 : N.C. : IN : Not in use.
pin 71 : 5V REM : O : 5V power supply ON signal output for Micro computer.
pin 72 : KEY ILL REM : O : Key illumination ON signal output.
pin 73 : AMP MUTE : O : Mute signal output to Power Amplifier.
pin 74 : SYS MUTE_ : O : System mute signal output. Negative logic.
pin 75 : LINE MUTE : O : Mute signal output for Audio signal of Ce-NET.
pin 76 : BUS IN/OUT : O : Ce-NET audio bus select signal output.
pin 77 : SYS ACC : O : ACC detect signal output to slave micro computer.
pin 78 : AMP REM DET_ : IN : Output "L" when the remote line is shorted.
pin 79 : AMP REM OUT : O : Amplifier ON signal output terminal.
pin 80 : SOFT MUTE : O : Soft mute signal output terminal.
pin 81 : PHONE INT : IN : Telephone interrupt signal input.
pin 82 : N.C. : IN : Not in use.
pin 83 : N.C. : IN : Not in use.
pin 84 : FM SD : IN : FM station detect signal input.
pin 85 : AM SD : IN : AM station detect signal input.
pin 86 : RDS DATA : IN : RDS data input.
pin 87 : RDS DISCG : O : Discharge signal output of NOISE 1.
pin 88 : RDS MUTE : O : RDS mute signal output.
pin 89 : S METER : IN : RDS FM S meter signal input.
pin 90 : NOISE 1 : IN : RDS noise level detector input.
pin 91 : N.C. : IN : Not in use.
pin 92 : ILL DET_ : IN : Illumination ON signal input. Negative logic.
pin 93 : DIMMER IN : IN : Voltage detector input terminal for Automatic Dimmer.
pin 94 : A VSS : - : Ground terminal for A/D converter.
pin 95 : KEY A/D : IN : Input terminal of A/D converter for Key judgment. Ref. Table 3.
pin 96 : VREF : IN : Reference voltage for A/D converter.

pin 97 : A VCC : - : Positive supply voltage for A/D converter.
pin 98 : N.C. : IN : Not in use.
pin 99 : N.C. : O : Not in use.
pin100 : N.C. : O : Not in use.

Table 1. Non fader volume control signal output

ATT	NF1 (pin37)	NF2 (pin38)	NF3 (pin39)
0	L	L	L
1	L	L	H
2	L	H	L
3	L	H	H
4	H	L	L
5	H	L	H
6	H	H	L
7	H	H	H

Table 2. Loading motor control output

	Loading	Eject	Brake	Stop
MCW (pin 58)	H	L	H	L
MCCW (pin 57)	L	H	H	L

Table 3. A/D converter for Key judgment(pin95)

Judgment	A/D steps		
Eject key	0/256	to	25/256
Function key	26/256	to	51/256
With DCP (type A/B)	205/256	to	221/256
With DCP (Deck)	222/256	to	238/256
Without DCP	239/256	to	256/256

■ M30622MC-193GP 052-7040-00 CD Tuner Display and Keys (Ce-NET)

1. Outward Form : 100 pins QFP

2. Function : LCD display control, Key scan, Ce-NET communication

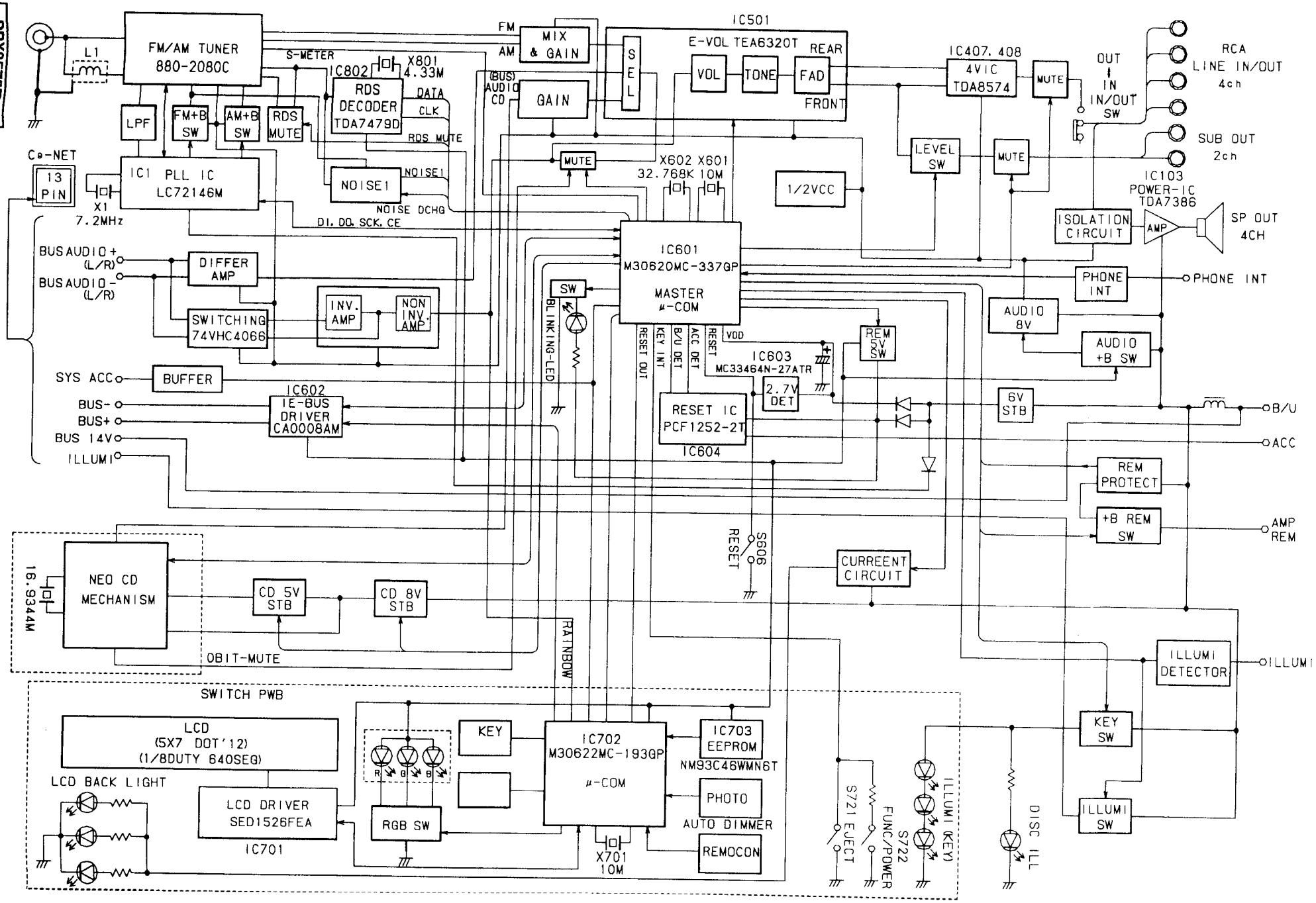
3. Terminal Description

pin 1 : N.C. : IN : Not in use.
pin 2 : CONTRAST : O : LCD Contrast control signal output. (Analog signal)
pin 3 : N.C. : O : Not in use.
pin 4 : N.C. : IN : Not in use.
pin 5 : REMOCON : IN : Remote controller signal input terminal.
pin 6 : BYTE : IN : Input "L" at single mode operation.
pin 7 : CNVSS : IN : Input "L" at single mode operation.
pin 8 : INITIAL 1 : IN : Destination setting terminal. Ref. Table 1.
pin 9 : INITIAL 2 : IN : Destination setting terminal. Ref. Table 1.
pin 10 : RESET_ : IN : System reset input. Negative logic.
pin 11 : X OUT : O : Crystal connection.
pin 12 : VSS : - : Ground.
pin 13 : X IN : IN : Crystal connection.
pin 14 : VCC : - : Positive supply voltage.
pin 15 : N.C. : IN : Not in use.
pin 16 : SYS ACC IN : IN : ACC ON signal input.
pin 17 : N.C. : IN : Not in use.
pin 18 : N.C. : IN : Not in use.
pin 19 : 27pinCONNECT : IN : Connect to 27pin.
pin 20 : LCD RESET : O : LCD driver reset signal output.
pin 21 : INITIAL IN : IN : EEPROM clear signal input.
pin 22 : N.C. : IN : Not in use.
pin 23 : N.C. : IN : Not in use.
pin 24 : N.C. : IN : Not in use.
pin 25 : N.C. : IN : Not in use.
pin 26 : N.C. : IN : Not in use.
pin 27 : IE BUS RX : IN : IE Bus communication line.
pin 28 : IE BUS TX : O : IE Bus communication line.
pin 29 : N.C. : IN : Not in use.
pin 30 : N.C. : IN : Not in use.
pin 31 : N.C. : IN : Not in use.
pin 32 : N.C. : IN : Not in use.
pin 33 : PROM DO : O : EEPROM Data output.
pin 34 : PROM DI : IN : EEPROM Data input.
pin 35 : PROM SCK : O : EEPROM Clock output.
pin 36 : PROM CS : O : EEPROM Chip enable output.
pin 37 : N.C. : IN : Not in use.
pin 38 : N.C. : IN : Not in use.
pin 39 : N.C. : IN : Not in use.
pin 40 : N.C. : IN : Not in use.
pin 41 : N.C. : IN : Not in use.
pin 42 : N.C. : IN : Not in use.
pin 43 : N.C. : IN : Not in use.
pin 44 : N.C. : IN : Not in use.
pin 45 : N.C. : IN : Not in use.
pin 46 : N.C. : IN : Not in use.
pin 47 : N.C. : IN : Not in use.
pin 48 : N.C. : IN : Not in use.
pin 49 : N.C. : IN : Not in use.
pin 50 : N.C. : IN : Not in use.
pin 51 : N.C. : IN : Not in use.
pin 52 : LED RED : O : Rainbow LED control output.
pin 53 : LED GREEN : O : Rainbow LED control output.
pin 54 : LED BLUE : O : Rainbow LED control output.
pin 55 : N.C. : IN : Not in use.
pin 56 : LCD WR_ : O : Write command output to LCD driver. Negative logic.
pin 57 : LCD RD_ : O : Read command output to LCD driver. Negative logic.
pin 58 : LCD CS 1 : O : Chip enable signal output to LCD driver Negative logic.
pin 59 : LCD AO : O : Address Data select signal output to LCD driver.
pin 60 : VCC : - : Positive supply voltage.
pin 61 : N.C. : IN : Not in use.
pin 62 : VSS : - : Ground.
pin 63 : D7 : O : Data/Address output to LCD driver. Negative logic.
pin 64 : D6 : O : Data/Address output to LCD driver. Negative logic.
pin 65 : D5 : - : Data/Address output to LCD driver. Negative logic.
pin 66 : D4 : O : Data/Address output to LCD driver. Negative logic.
pin 67 : D3 : O : Data/Address output to LCD driver. Negative logic.
pin 68 : D2 : O : Data/Address output to LCD driver. Negative logic.
pin 69 : D1 : O : Data/Address output to LCD driver. Negative logic.
pin 70 : D0 : O : Data/Address output to LCD driver. Negative logic.
pin 71 : N.C. : IN : Not in use.
pin 72 : N.C. : IN : Not in use.
pin 73 : N.C. : IN : Not in use.
pin 74 : N.C. : IN : Not in use.
pin 75 : N.C. : IN : Not in use.
pin 76 : N.C. : IN : Not in use.
pin 77 : JOG CCW : IN : Jog key signal input.
pin 78 : JOG CW : IN : Jog key signal input.
pin 79 : N.C. : IN : Not in use.
pin 80 : N.C. : IN : Not in use.
pin 81 : KO 5 : O : Key scan output terminal.
pin 82 : KO 4 : O : Key scan output terminal.
pin 83 : KO 3 : O : Key scan output terminal.
pin 84 : KO 2 : O : Key scan output terminal.
pin 85 : KO 1 : O : Key scan output terminal.
pin 86 : KO 0 : O : Key scan output terminal.
pin 87 : KI 3 : IN : Key scan input terminal.
pin 88 : KI 2 : IN : Key scan input terminal.
pin 89 : KI 1 : IN : Key scan input terminal.
pin 90 : KI 0 : IN : Key scan input terminal.
pin 91 : N.C. : IN : Not in use.
pin 92 : RAINBOW IN : IN : Audio signal input terminal of bulit-in A/D converter, for the rainbow LED.
pin 93 : TEMP DET : IN : Temperature signal input of bulit-in A/D converter.
pin 94 : A VSS : - : Ground terminal for bulit-in A/D converter.
pin 95 : N.C. : IN : Not in use.
pin 96 : VREF : IN : Reference voltage terminal for bulit-in A/D converter.
pin 97 : AVCC : - : Positive supply voltage terminal for bulit-in A/D converter.
pin 98 : N.C. : IN : Not in use.
pin 99 : N.C. : IN : Not in use.
pin100 : N.C. : IN : Not in use.

Table 1. Destination setting

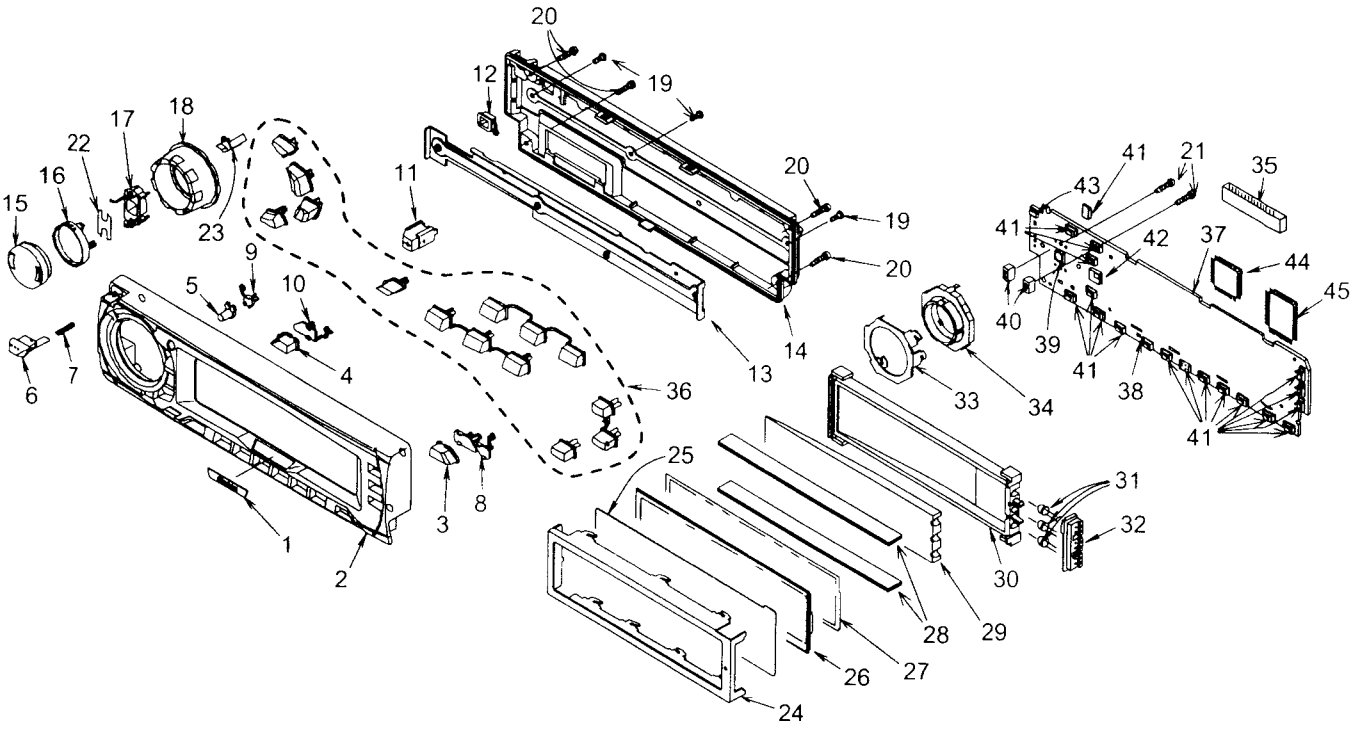
	U.S.A.	Other	Japan	Europe
INITIAL 1 (pin 8)	H	L	H	L
INITIAL 2 (pin 9)	L	L	H	H

BLOCK DIAGRAM



■EXPLODED VIEW・PARTS LIST

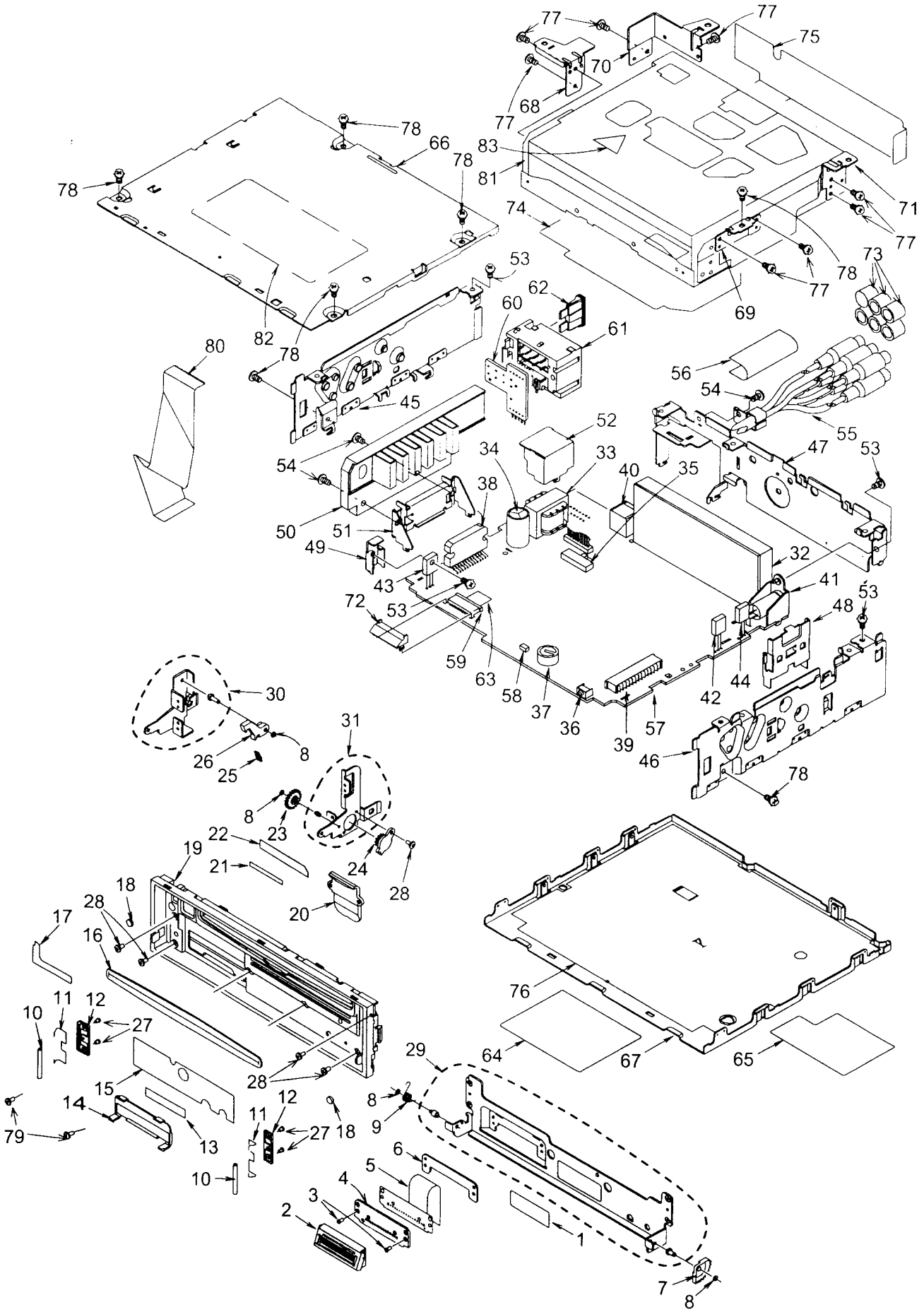
Esctcheon section



NO.	PART NO.	DESCRIPTION	Q'TY
1	378-0515-00	BADGE	1
2	370-5770-00 370-5770-05	ESCTCHEON (DRX8575Rz) ESCTCHEON (DRX8575RWz)	1
3	382-5145-00	BUTTON (Z-EHCR)	1
4	382-5150-00	BUTTON (DISP)	1
5	382-5155-00	BUTTON (TITLE)	1
6	382-5152-00	BUTTON (OPEN)	1
7	750-3339-10	SPRING(OPEN)	1
8	335-5832-00	BUTTON HOLDER (Z-EHCR)	1
9	335-5834-00	BUTTON HOLDER (TITLE)	1
10	335-5835-00	BUTTON HOLDER (DISP)	1
11	335-5833-00	IR FILTER	1
12	382-5172-00	BUTTON (EJECT)	1
13	331-2554-00	REAR-COVER-PLATE	1
14	335-5860-00	REAR COVER	1
15	382-5159-00	BUTTON (SRCH)	1
16	335-5841-00	BUTTON HOLDER (SRCH)	1
17	382-5842-00	BASE PLATE (SRCH)	1
18	380-5437-00	JOG DIAL	1
19	738-2035-17	PRECISION SCREW	3
20	716-0872-12	PAD SCREW (M1.7×8BLK)	4
21	716-0872-01	PAD SCREW (M1.7×6)	2
22	347-5951-10	REFLECTOR (SRCH)	1
23	335-5836-00	IR FILTER	1

NO.	PART NO.	DESCRIPTION	Q'TY
24	331-2522-00	LCD COVER	1
25	373-0908-10	DIAL COVER	1
26	379-1133-51	INDICATOR	1
27	347-5911-10	CCS FILM	1
28	345-8261-10	RUBBER CONNECTOR	2
29	335-5850-00	ILLUMI PLATE	1
30	335-5851-00	LCD HOLDER	1
31	001-7030-00	DIODE (NSPB310A)	3
32	335-5852-00	LED HOLDER	1
33	331-2538-00	JOG-SW-HOLDER	1
34	013-8001-00	JOG ROTALY SWITCH	1
35	076-0535-01	PLUG	1
36	947-0489-00	BUTTON ASSY	1
37	039-1325-01	SWITCH PWB (WITHOUT COMPONENT)	1
38	001-7011-02	DIODE (CL-150YG-CD)	1
39	001-7039-00	DIODE (NSCM310A)	1
40	013-6302-50	SWITCH	2
41	013-6504-00	LUMI SWITCH	19
42	060-4008-00	IR-RECEIVER	1
43	060-4011-80	PHOTO TRANSISTOR	1
44	051-9400-38	IC (M93C46-WMN6T)	1
45	052-7040-00	IC (M30622MC-193GP)	1

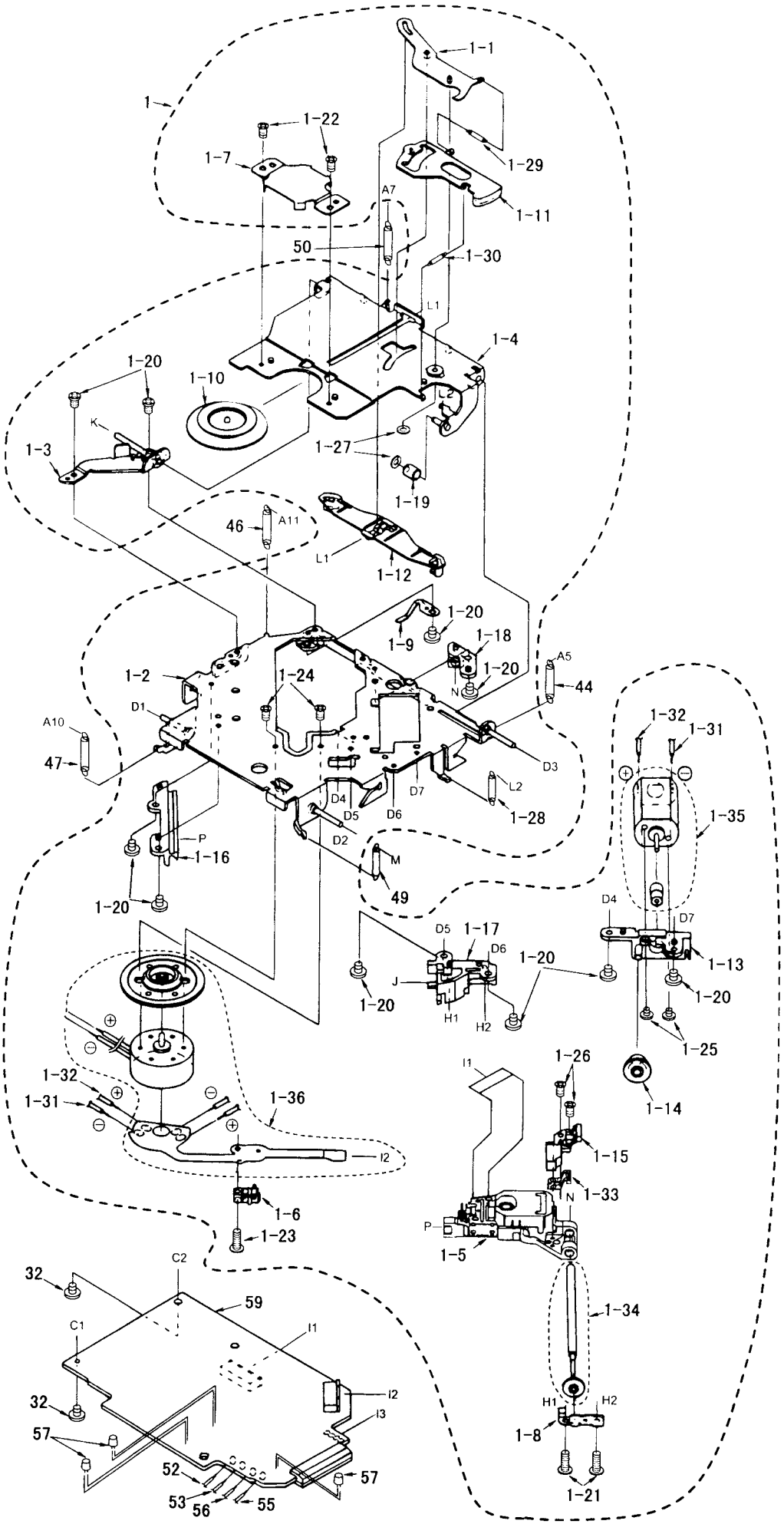
Main section



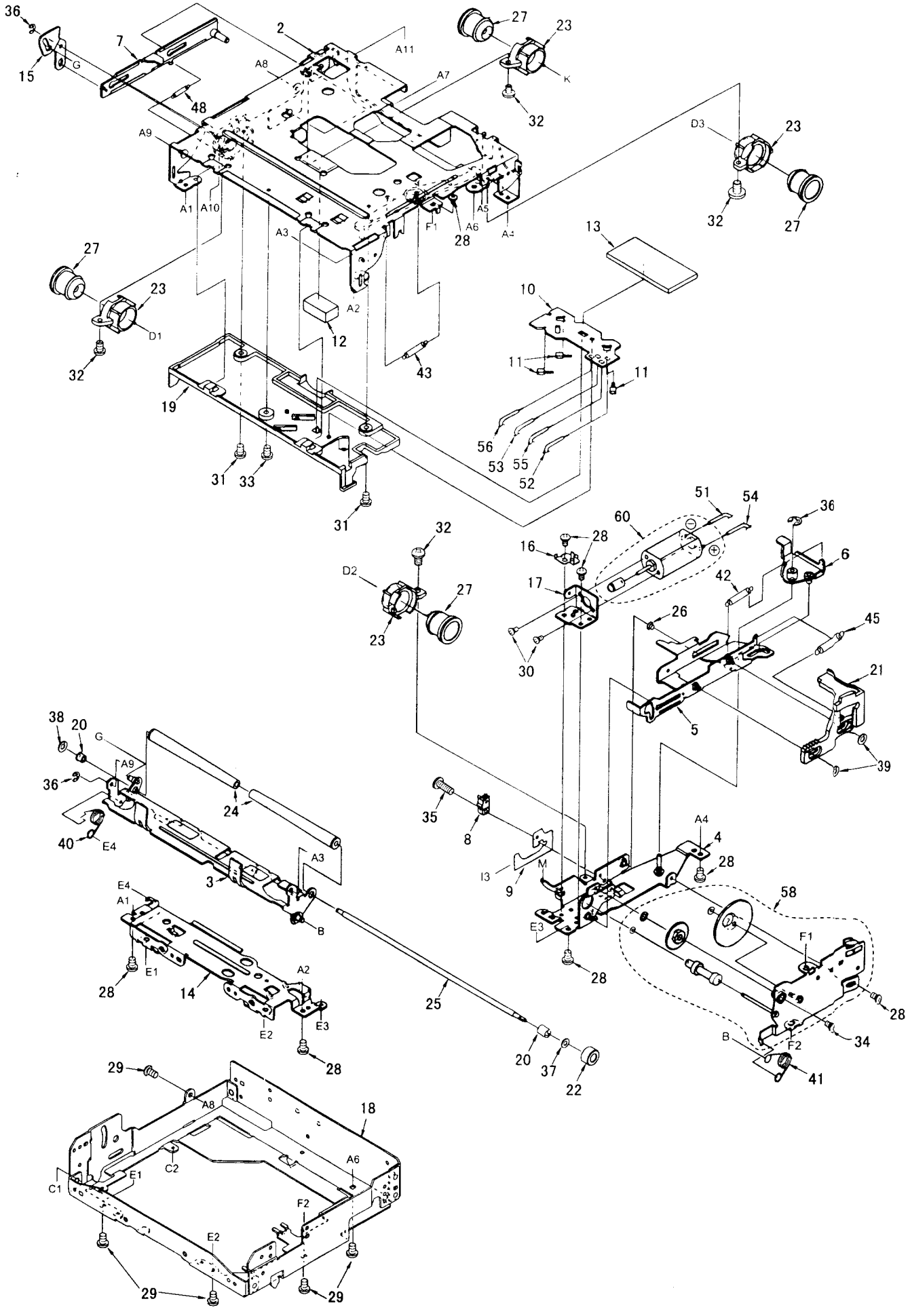
NO.	PART NO.	DESCRIPTION	Q'TY
1	291-0078-00	STICKER	1
2	074-1145-01	OUTLET SOCKET	1
3	781-1735-00	PRECISION SCREW	2
4	039-1306-00	DCP PWB (WITHOUT COMPONENT)	1
5	039-1328-01	FPC (WITHOUT COMPONENT)	1
6	347-5935-10	SPACER	1
7	613-0686-00	FAN GEAR	1
8	746-0761-00	WASHER	4
9	750-3342-00	SPRING	1
10	341-1704-00	ROLLER	2
11	750-3327-01	SPRING	2
12	335-5848-00	SPRING HOLDER	2
13	347-5919-10	SURGE PROTECT	1
14	335-5849-00	CONNECTOR COVER	1
15	290-7676-10	LABEL	1
16	346-0114-10	LEATHER SHEET	1
17	347-5941-10	HEAT PROTECT	1
18	345-8265-11	CUSHION	2
19	370-5775-00	INNER ESCUTCHEON	1
20	335-5845-00	ILLUMI PLATE	1
21	347-5923-10	DOUBLE FACE	1
22	347-5920-10	COVER FILM	1
23	613-0685-00	GEAR	1
24	613-0687-00	GEAR DAMPER	1
25	750-3341-10	SPRING	1
26	335-5847-00	HOOK	1
27	738-1722-17	PRECISION SCREW	4
28	780-2004-01	SCREW	5
29	946-0073-00	HOLDER ASSY	1
30	946-0074-01	ARM-L-ASSY	1
31	946-0075-01	ARM-R-ASSY	1
32	880-2080C	TUNER	1
33	009-9006-85	CHOKE	1
34	042-0447-00	ALMI-ELE-C (16V2200 μF)	1
35	013-5102-00	SWITCH	1
36	013-6100-00	RESET SWITCH	1
37	042-0596-00	DOUBLE-LAYER-C (5.5V0.33F)	1
38	051-2025-00	IC (TDA7586)	1
39	074-0986-26	OUTLET SOCKET	1
40	074-1194-00	OUTLET SOCKET	1
41	092-9000-41	ANTENNA RECEPTACLE	1
42	101-1143-00	TRANSISTOR (2SB1143)	1

NO.	PART NO.	DESCRIPTION	Q'TY
43	102-3420-00	TRANSISTOR (2SC3420)	1
44	102-3420-50	TRANSISTOR (2SC3420GR)	1
45	305-0276-00	SIDE COVER (L)	1
46	305-0277-00	SIDE COVER (R)	1
47	307-0617-00	REAR COVER	1
48	313-1747-00	HEAT SINK	1
49	313-1745-00	HEAT SINK	1
50	313-1746-00	HEAT SINK	1
51	331-2547-00	IC-HOLDER	1
52	331-2549-00	SHIELD CASE	1
53	714-3006-81	MACHINE SCREW (M3×6)	4
54	731-3006-80	TAPTIGHT	3
55	855-5405-00	RCA PIN CORD	1
56	347-5423-00	PROTECTION TAPE	1
57	039-1402-00	MAIN PWB (WITHOUT COMPONENT)	1
58	001-7011-02	DIODE (CL-150YG-CD)	1
59	074-1198-18	OUTLET SOCKET	1
60	039-0887-00	ISO PWB (WITHOUT COMPONENT)	1
61	074-1115-00	OUTLET SOCKET	1
62	060-0057-57	ANTNNA FUSE (15A)	1
63	347-6010-10	SPACER	1
64	286-9110-00 286-9111-00	SETPLATE (DRX8575Rz) SETPLATE (DRX8575RWz)	1
65	290-7672-20	LABEL	1
66	303-0473-00	UPPER COVER	1
67	304-0462-00	LOWER COVER	1
68	331-2542-00	CD-SUB-BRACKET (FRONT/L)	1
69	331-2543-00	CD-SUB-BRACKET (FRONT/R)	1
70	331-2544-00	CD-SUB-BRACKET (REAR/L)	1
71	331-2545-00	CD-SUB-BRACKET (REAR/R)	1
72	335-6020-00	CONNECTOR COVER	1
73	345-3799-00	RUBBER PART	6
74	347-5916-11	INSULATOR	1
75	347-5993-00	INSULATOR	1
76	347-5918-10	INSULATOR	1
77	716-0717-10	STEEL SCREW	8
78	731-3006-80	TAPTIGHT	7
79	780-2004-01	SCREW	2
80	816-2391-00	FLAT CABLE	1
81	929-0069-82	CD-MECHA-MODLULE	1
82	285-1340-00	GUIDE LABEL (CAUTION)	1
83	285-0426-00	GUIDE LABEL (LASER)	1

CD mechanism section



DRX8575Rz
DRX8575RWz


36
15
G
7
2
A11
A8
A7
27
23
K
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A9
A1
A10
A3
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43
F1
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28
A5
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D3
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A9
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A3
B
35
8
I3
9
M
A4
4
28
E4
A1
E1
28
14
A2
E2
E3
28
25
58
F1
28
34
B
F2
41
20
37
22
29
A8
18
C1
E1
C2
A6
F2
E2
29
29

NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-463-100	DRIVE UNIT	1
1-1	966-0314-01	STOP LINK-ASSY	1
1-2	966-0447-04	DR-PLATE-ASSY	1
1-3	966-0448-01	SIDE PLATE-ASSY	1
1-4	966-0449-02	CLAMP-LINK-ASSY	1
1-5	969-0050-03	PICK UP UNIT	1
1-6	013-7100-00	LIMIT SWITCH	1
1-7	620-0198-03	CLAMPER PLATE	1
1-8	620-0491-03	SPRING PLATE	1
1-9	620-0690-01	RATTLE PLATE	1
1-10	621-0205-02	CLAMPER RING	1
1-11	621-0251-03	LOCK LINK	1
1-12	621-0252-03	DISC STOPPER	1
1-13	621-0253-01	MOTOR HOLDER	1
1-14	621-0255-02	SECOUND GEAR	1
1-15	621-0375-00	SH-BASE	1
1-16	621-0357-03	PICK UP GUIDE	1
1-17	621-0358-02	LS-HOLDER-F	1
1-18	621-0359-02	LS-HOLDER-R	1
1-19	622-1073-02	CLAMPER ROLLER	1
1-20	714-2003-81	MACHINE SCREW(M2X3)	10
1-21	716-0675-00	SCREW	2
1-22	716-1468-00	SCREW	2
1-23	716-1555-00	WAVE SCREW	1
1-24	716-1733-00	SCREW	2
1-25	732-2004-11	SEMS SCREW	2
1-26	739-1735-17	PRECISION SCREW	2
1-27	746-0761-00	SCREW	2
1-28	750-3097-03	CLAMPER SPRING	1
1-29	750-3098-00	L-LINK SPRING	1
1-30	750-3099-00	ES-SPRING	1
1-31	816-2372-00	LEAD(BLUE)	1
1-32	816-2373-00	LEAD(WHITE)	1
1-33	966-0454-00	SH-RACK-ASSY	1
1-34	HBS-432-100	LS-GEAR-ASSY	1
1-35	SMA-146-100	SLED MOTOR-ASSY	1
1-36	SMA-151-100	SPINDLE MOTOR-ASSY	1
2	966-0308-10	CHASSIS-ASSY	1
3	966-0309-05	L-DISC-G-ASSY	1
4	966-0310-06	SFT-P-CH-ASSY	1
5	966-0312-06	SHIFT-P-ASSY	1
6	966-0358-01	DRIVE-L-PL-ASSY	1
7	966-0359-03	SIDE-L-PL-ASSY	1
8	013-3879-01	CHUCKING SWITCH	1
9	039-0586-01	CHUCKING SWITCH PWB (WITHOUT COMPONENT)	1
10	039-0588-01	SENSOR PWB (WITHOUT COMPONENT)	1
11	060-0252-01	PHOTO-TR (PT4850F)	3
12	345-7513-01	CLAMPER SHEET	1

NO.	PART NO.	DESCRIPTION	Q'TY
13	345-7514-00	S-PWB-SHEET	1
14	620-0485-04	FRONT PLATE	1
15	620-0488-01	S-L-LINK PLATE	1
16	620-0489-02	MOTOR PLATE	1
17	620-0492-01	MOTOR BRACKET	1
18	620-0773-01	MECH-BRACKET	1
19	621-0402-01	U-DISC GUIDE-F	1
20	621-0243-02	ROLLER SLEEVE	2
21	621-0248-07	RACK GEAR	1
22	621-0249-02	ROLLER GEAR	1
23	621-0250-01	DAMPER HOLDER	4
24	621-0258-03	LOADING ROLLER	2
25	622-1072-05	ROLLER SHAFT	1
26	622-1219-01	SHIFT ROLLER	1
27	629-0058-00	DAMPER-VA	4
28	714-2003-81	MACHINE SCREW(M2X3)	8
29	714-2603-81	MACHINE SCREW(M2.6X3)	5
30	716-1468-00	SCREW	2
31	716-1507-00	SCREW	2
32	716-1670-00	SCREW	6
33	716-1677-00	SCREW	1
34	716-1704-00	SCREW	1
35	716-1742-00	SCREW	1
36	743-1500-10	E-RING	3
37	746-0712-03	WASHER	1
38	746-0762-00	WASHER	1
39	746-0877-02	WASHER	2
40	750-3090-02	RO-SPRING-L	1
41	750-3091-03	RO-SPRING-R	1
42	750-3092-03	SHIFT SPRING	1
43	750-3094-00	S-ARM SPRING	1
44	750-3096-01	DR-SPRING-R	1
45	750-3098-00	L-LINK SPRING	1
46	750-3164-00	DR-SPRING-LR	1
47	750-3188-00	DR-SPRING-F-B	1
48	750-3189-00	SIDE-L-SPRING	1
49	750-3201-00	DR-SPRING-F-R	1
50	750-3202-00	CENTER SPRING-B	1
51	800-4904-60	VINYL-COAT-WIRE(BLK)	1
52	800-4910-60	VINYL-COAT-WIRE(BLK)	1
53	801-4910-60	VINYL-COAT-WIRE(BRN)	1
54	802-4904-60	VINYL-COAT-WIRE(RED)	1
55	802-4910-60	VINYL-COAT-WIRE(RED)	1
56	804-4910-60	VINYL-COAT-WIRE(YEL)	1
57	001-0563-00	DIODE	3
58	HBS-430-100	GEAR-PLATE-ASSY	1
59	039-1088-02	MECHANISM PWB (WITHOUT COMPONENT)	1
60	SMA-147-100	LOADING MOTOR-ASSY	1

■ ELECTRICAL PARTS LIST

Main PWB section(B1)

REF No.	PART No.	DESCRIPTION
ANT1	092-9000-41	ANT RECEPT
C1	176-1801-00	18pF CH
C2	178-1032-78	0.01 μF
C3	178-1032-78	0.01 μF
C5	042-0592-73	50V1 μF
C6	178-6822-78	6800pF
C7	183-4763-31	16V47 μF
C8	178-1522-78	1500pF
C9	178-1032-78	0.01 μF
C10	178-4732-78	0.047 μF
C11	178-1832-78	0.018 μF
C12	178-1832-78	0.018 μF
C14	178-1042-78	0.1 μF
C15	042-0592-73	50V1 μF
C16	178-8222-78	8200pF
C17	178-1222-78	1200pF
C18	176-1011-00	100pF CH
C19	176-1011-00	100pF CH
C21	176-1011-00	100pF CH
C22	176-1011-00	100pF CH
C24	176-1501-00	15pF CH
C25	176-1801-00	18pF CH
C30	183-1073-12	6.3V100 μF
C31	178-1032-78	0.01 μF
C35	178-1032-78	0.01 μF
C36	178-2212-78	220pF
C37	042-0592-61	16V47 μF
C38	178-1022-78	1000pF
C39	178-4732-78	0.047 μF
C101	042-0592-58	16V 10 μF
C102	042-0592-58	16V 10 μF
C103	042-0592-58	16V 10 μF
C104	042-0592-58	16V 10 μF
C105	042-0592-58	16V 10 μF
C106	042-0592-58	16V 10 μF
C107	042-0592-58	16V 10 μF
C108	042-0592-58	16V 10 μF
C109	043-0296-00	0.1 μF
C110	043-0296-00	0.1 μF
C111	043-0296-00	0.1 μF
C112	043-0296-00	0.1 μF
C113	183-1063-31	16V10 μF
C114	178-4742-78	0.47 μF
C115	183-4763-31	16V47 μF
C116	042-0592-66	35V 4.7 μF
C117	176-1011-00	100pF CH
C118	176-1011-00	100pF CH
C119	176-1011-00	100pF CH
C120	176-1011-00	100pF CH
C201	042-0447-00	16V2200 μF
C202	172-1041-11	0.1 μF
C203	183-1073-21	10V100 μF
C204	183-2263-32	16V22 μF
C205	178-4732-78	0.047 μF
C206	042-0452-02	16V100 μF
C207	183-4763-31	16V47 μF
C208	178-2232-78	0.022 μF
C209	172-4731-11	0.047 μF
C210	183-1053-61	50V1 μF
C301	042-0592-58	16V 10 μF
C302	042-0592-58	16V 10 μF
C303	042-0592-59	16V22 μF
C304	042-0592-58	16V 10 μF
C305	042-0592-58	16V 10 μF
C306	042-0592-58	16V 10 μF
C307	042-0592-58	16V 10 μF
C308	042-0592-58	16V 10 μF
C309	042-0592-58	16V 10 μF
C310	176-1201-00	12pF CH
C311	176-1201-00	12pF CH
C312	176-1201-00	12pF CH

REF No.	PART No.	DESCRIPTION
C313	176-1201-00	12pF CH
C314	042-0592-58	16V 10 μF
C315	042-0592-58	16V 10 μF
C316	042-0592-58	16V 10 μF
C317	042-0592-58	16V 10 μF
C318	042-0592-58	16V 10 μF
C319	042-0592-58	16V 10 μF
C320	042-0592-58	16V 10 μF
C321	042-0592-74	50V 2.2 μF
C322	176-1011-00	100pF CH
C323	176-1011-00	100pF CH
C324	176-1011-00	100pF CH
C325	176-1011-00	100pF CH
C401	042-0592-50	6.3V 22 μF
C402	042-0592-50	6.3V 22 μF
C403	042-0592-58	16V 10 μF
C404	042-0592-58	16V 10 μF
C408	042-0592-58	16V 10 μF
C417	042-0592-58	16V 10 μF
C418	042-0592-58	16V 10 μF
C419	042-0592-58	16V 10 μF
C420	042-0592-58	16V 10 μF
C421	042-0592-61	16V47 μF
C422	042-0592-61	16V47 μF
C423	183-1073-21	10V100 μF
C424	178-1522-78	1500pF
C425	183-1073-21	10V100 μF
C426	178-1522-78	1500pF
C427	183-1073-21	10V100 μF
C428	178-1522-78	1500pF
C429	183-1073-21	10V100 μF
C430	178-1522-78	1500pF
C431	042-0592-58	16V 10 μF
C432	042-0592-58	16V 10 μF
C433	042-0592-58	16V 10 μF
C434	042-0592-58	16V 10 μF
C435	184-2273-22	10V220 μF
C436	042-0592-50	6.3V 22 μF
C437	042-0592-50	6.3V 22 μF
C442	178-4732-78	0.047 μF
C443	176-1011-00	100pF CH
C444	176-1011-00	100pF CH
C501	042-0592-74	50V 2.2 μF
C502	042-0592-71	50V0.33 μF
C503	042-0592-74	50V 2.2 μF
C504	178-1822-78	1800pF
C505	178-1822-78	1800pF
C506	043-0264-13	0.01 μF
C507	043-0264-13	0.01 μF
C508	042-0592-58	16V 10 μF
C509	042-0592-58	16V 10 μF
C510	176-1811-00	180pF CH
C511	176-1811-00	180pF CH
C512	042-0592-74	50V 2.2 μF
C515	042-0592-73	50V1 μF
C516	042-0592-66	35V 4.7 μF
C517	042-0592-66	35V 4.7 μF
C518	042-0592-66	35V 4.7 μF
C519	042-0592-66	35V 4.7 μF
C520	042-0592-66	35V 4.7 μF
C521	042-0592-66	35V 4.7 μF
C522	042-0592-73	50V1 μF
C524	178-3322-78	3300pF
C525	178-1542-78	0.15 μF
C526	178-5632-78	0.056 μF
C527	178-5622-78	5600pF
C528	178-3322-78	3300pF
C529	178-1542-78	0.15 μF
C530	178-5632-78	0.056 μF
C531	178-5622-78	5600pF
C532	042-0592-61	16V47 μF

REF No.	PART No.	DESCRIPTION
C533	184-1073-22	10V100 μF
C601	176-1801-00	18pF CH
C602	176-1801-00	18pF CH
C603	178-1032-78	0.01 μF
C604	042-0577-00	6.3V100 μF
C606	042-0592-58	16V 10 μF
C607	042-0596-00	5.5V0.33F
C608	183-1063-31	16V10 μF
C609	178-1032-78	0.01 μF
C610	178-1042-78	0.1 μF
C611	178-1042-78	0.1 μF
C612	178-4732-78	0.047 μF
C613	178-1032-78	0.01 μF
C614	178-4732-78	0.047 μF
C615	042-0592-66	35V 4.7 μF
C617	176-1011-00	100pF CH
C618	178-1022-78	1000pF
C619	176-1011-00	100pF CH
C801	178-2232-78	0.022 μF
C802	178-5612-78	560pF
C803	178-5612-78	560pF
C804	178-2232-78	0.022 μF
C805	178-1032-78	0.01 μF
C806	183-2253-62	50V2.2 μF
C807	178-3312-78	330pF
C808	183-4763-12	6.3V47 μF
C809	178-1042-78	0.1 μF
C810	176-8201-00	82pF CH
C811	176-4701-00	47pF CH
C812	176-1007-00	10pF CH
C901	042-0505-81	10V22 μF
C902	183-1073-21	10V100 μF
C903	176-1007-00	10pF CH
C906	183-1063-31	16V10 μF
C907	183-1063-31	16V10 μF
C908	178-1022-78	1000pF
C909	178-1022-78	1000pF
C910	178-1022-78	1000pF
D1	001-0516-00	MA111
D101	001-2403-90	M1F60
D102	001-2403-90	M1F60
D103	001-2403-90	M1F60
D104	001-2403-90	M1F60
D105	001-2403-90	M1F60
D106	001-2403-90	M1F60
D107	001-2403-90	M1F60
D108	001-2403-90	M1F60
D201	001-0592-00	RM4Z
D202	001-0503-46	HZS9B2L
D203	001-0377-11	MA4030M
D204	001-0466-00	S5688B
D205	001-0466-00	S5688B
D206	001-0423-31	MA4180
D207	001-0516-00	MA111
D208	001-0466-01	S5688G
D209	001-7011-02	CL-150YG-C
D301	001-2406-90	1PS226
D401	001-2406-90	1PS226
D402	001-2405-90	1PS184
D403	001-0528-44	MA8082-M
D601	001-0659-00	SLP-181B-51
D603	001-0516-00	MA111
D604	001-0516-00	MA111
D605	001-0516-00	MA111
D606	001-0516-00	MA111
D607	001-0589-00	1SS145
D608	001-0516-00	MA111
D609	001-0528-47	MA8091-M
D801	001-2406-90	1PS226
D902	001-0516-00	MA111
D903	001-0503-32	HZS6A3L

REF No.	PART No.	DESCRIPTION
D904	001-0503-46	HZS9B2L
IC1	051-6201-00	LC72146M
IC101	051-3029-90	MC33078D
IC102	051-3029-90	MC33078D
IC103	051-2025-00	TDA7386
IC201	051-3250-00	LE60CZ
IC301	051-3030-90	MC33079D
IC302	051-7247-08	74HC4066DT
IC303	051-3029-90	MC33078D
IC304	051-3028-90	MC4558ID
IC401	051-3029-90	MC33078D
IC404	051-3028-90	MC4558ID
IC407	051-5810-00	TDA8574T
IC408	051-5810-00	TDA8574T
IC501	051-5015-90	TEA6320T
IC504	051-3029-90	MC33078D
IC505	051-3028-90	MC4558ID
IC601	052-3348-00	M30620MC-337GP
IC602	051-6600-38	CA0008AM
IC603	051-5415-08	MC33464N-27ATR
IC604	051-5416-08	PCF1252-2T
IC801	051-3028-90	MC4558ID
IC802	051-1819-50	TDA7479D
J601	074-1194-00	13P CE-NET
J602	074-1198-18	18P
J901	074-0986-26	26P
L1	010-4007-00	30 μH
L2	010-2230-88	220 μH
L201	010-2230-76	22 μH
L401	010-2230-88	220 μH
L801	010-2230-88	220 μH
Q1	103-1306-00	2SD1306
Q2	125-0002-03	RN2403
Q3	100-1162-00	2SA1162
Q4	100-1298-00	2SA1298
Q6	108-0669-00	2SK669
Q201	102-3420-00	2SC3420
Q202	108-0241-50	2SK241Y.GR
Q203	101-1237-50	2SB1237QR
Q204	102-2712-00	2SC2712
Q205	100-1162-00	2SA1162
Q206	125-2004-03	RN1403
Q207	101-1143-00	2SB1143
Q208	103-1858-00	2SD1858
Q209	100-1162-00	2SA1162
Q210	102-2712-00	2SC2712
Q211	100-1416-00	2SA1416
Q212	125-2004-03	RN1403
Q301	103-1306-00	2SD1306
Q302	103-1306-00	2SD1306
Q303	103-1306-00	2SD1306
Q304	103-1306-00	2SD1306
Q305	125-2004-06	RN1406
Q306	125-0002-06	RN2406
Q307	125-0002-06	RN2406
Q308	125-2004-03	RN1403
Q401	125-2030-00	RN1410
Q402	125-2030-00	RN1410
Q403	125-2030-00	RN1410
Q404	125-2030-00	RN1410
Q405	125-2030-00	RN1410
Q406	125-2030-00	RN1410
Q408	125-0002-02	RN2402
Q409	125-0002-02	RN2402
Q410	125-0002-02	RN2402
Q412	125-2004-06	RN1406
Q413	102-2712-00	2SC2712
Q414	125-0002-06	RN2406
Q415	103-1306-00	2SD1306
Q416	103-1306-00	2SD1306
Q417	103-1306-00	2SD1306
Q418	103-1306-00	2SD1306
Q419	103-1306-00	2SD1306
Q420	103-1306-00	2SD1306

REF No.	PART No.	DESCRIPTION
Q601	125-2004-03	RN1403
Q602	125-2004-06	RN1406
Q603	100-1298-00	2SA1298
Q604	125-2004-03	RN1403
Q605	100-1298-00	2SA1298
Q606	125-2004-03	RN1403
Q607	100-1162-00	2SA1162
Q608	102-2712-00	2SC2712
Q609	100-1162-00	2SA1162
Q801	125-2004-02	RN1402
Q901	125-2004-06	RN1406
Q902	103-1802-60	2SD1802FA-R.S.T
Q903	125-0002-02	RN2402
Q904	125-2004-02	RN1402
Q905	102-3420-50	2SC3420GR.BL
Q906	101-1240-00	2SB1240
Q907	125-2004-06	RN1406
R1	117-1831-10	1/10W 18kΩ
R2	117-3331-10	1/10W 33kΩ
R3	117-1021-10	1/10W 1kΩ
R4	117-1021-10	1/10W 1kΩ
R5	117-5631-10	1/10W 56kΩ
R6	117-1231-10	1/10W 12kΩ
R7	117-8221-10	1/10W 8.2kΩ
R8	117-1021-10	1/10W 1kΩ
R9	117-2241-10	1/10W 220kΩ
R10	117-1031-10	1/10W 10kΩ
R11	117-2231-10	1/10W 22kΩ
R12	117-4721-10	1/10W 4.7kΩ
R13	117-1031-10	1/10W 10kΩ
R14	117-1031-10	1/10W 10kΩ
R15	032-0104-73	1/4W 330Ω
R16	117-1031-10	1/10W 10kΩ
R17	117-1021-10	1/10W 1kΩ
R18	117-2221-10	1/10W 2.2kΩ
R19	117-1231-10	1/10W 12kΩ
R20	032-0104-65	1/4W 270Ω
R21	117-1021-10	1/10W 1kΩ
R22	117-1021-10	1/10W 1kΩ
R23	117-1521-10	1/10W 1.5kΩ
R24	117-1031-10	1/10W 10kΩ
R25	117-1031-10	1/10W 10kΩ
R26	117-1521-10	1/10W 1.5kΩ
R27	117-8211-10	1/10W 820Ω
R28	117-1001-10	1/10W 10Ω
R101	117-3311-10	1/10W 330Ω
R102	117-2231-10	1/10W 22kΩ
R103	117-2231-10	1/10W 22kΩ
R104	117-3311-10	1/10W 330Ω
R105	117-3311-10	1/10W 330Ω
R106	117-2231-10	1/10W 22kΩ
R107	117-2231-10	1/10W 22kΩ
R108	117-3311-10	1/10W 330Ω
R109	032-0092-90	1/10W 10kΩ ±1%
R110	032-0092-74	1/10W 8.2kΩ ±1%
R111	032-0092-90	1/10W 10kΩ ±1%
R112	032-0092-74	1/10W 8.2kΩ ±1%
R113	032-0092-90	1/10W 10kΩ ±1%
R114	032-0092-74	1/10W 8.2kΩ ±1%
R115	032-0092-90	1/10W 10kΩ ±1%
R116	032-0092-74	1/10W 8.2kΩ ±1%
R117	032-0092-90	1/10W 10kΩ ±1%
R118	032-0092-74	1/10W 8.2kΩ ±1%
R119	032-0092-90	1/10W 10kΩ ±1%
R120	032-0092-74	1/10W 8.2kΩ ±1%
R121	032-0092-90	1/10W 10kΩ ±1%
R122	032-0092-74	1/10W 8.2kΩ ±1%
R123	032-0092-90	1/10W 10kΩ ±1%
R124	032-0092-74	1/10W 8.2kΩ ±1%
R125	117-1231-10	1/10W 12kΩ
R126	117-8221-10	1/10W 8.2kΩ
R201	117-2221-10	1/10W 2.2kΩ
R202	117-1031-10	1/10W 10kΩ
R203	032-0104-67	1/4W 1.2kΩ

REF No.	PART No.	DESCRIPTION
R204	111-4700-91	1/4WS 47Ω
R205	117-1031-10	1/10W 10kΩ
R206	117-1031-10	1/10W 10kΩ
R207	117-1801-10	1/10W 18Ω
R208	117-6811-10	1/10W 680Ω
R209	032-0104-63	1/4W 1.5Ω
R210	032-0104-63	1/4W 1.5Ω
R211	032-0104-63	1/4W 1.5Ω
R212	032-0104-63	1/4W 1.5Ω
R213	117-1031-10	1/10W 10kΩ
R214	117-3321-10	1/10W 3.3kΩ
R215	117-3321-10	1/10W 3.3kΩ
R216	117-2231-10	1/10W 22kΩ
R217	117-1031-10	1/10W 10kΩ
R218	032-0104-67	1/4W 1.2kΩ
R219	117-2221-10	1/10W 2.2kΩ
R220	117-2221-10	1/10W 2.2kΩ
R221	032-0104-69	1/4W 1.5kΩ
R222	117-6811-10	1/10W 680Ω
R223	117-1011-10	1/10W 100Ω
R301	117-2231-10	1/10W 22kΩ
R302	117-2231-10	1/10W 22kΩ
R303	117-1021-10	1/10W 1kΩ
R304	117-1021-10	1/10W 1kΩ
R305	117-1021-10	1/10W 1kΩ
R306	117-1021-10	1/10W 1kΩ
R307	117-1021-10	1/10W 1kΩ
R308	117-1021-10	1/10W 1kΩ
R309	117-1021-10	1/10W 1kΩ
R310	117-1021-10	1/10W 1kΩ
R311	117-1021-10	1/10W 1kΩ
R312	117-2221-10	1/10W 2.2kΩ
R313	117-1021-10	1/10W 1kΩ
R314	117-2231-10	1/10W 22kΩ
R315	117-2721-10	1/10W 2.7kΩ
R316	117-2231-10	1/10W 22kΩ
R317	117-2721-10	1/10W 2.7kΩ
R318	117-1031-10	1/10W 10kΩ
R319	117-1031-10	1/10W 10kΩ
R320	117-1031-10	1/10W 10kΩ
R321	117-1031-10	1/10W 10kΩ
R322	117-1041-10	1/10W 100kΩ
R323	117-1041-10	1/10W 100kΩ
R324	117-1041-10	1/10W 100kΩ
R325	117-1041-10	1/10W 100kΩ
R326	117-1041-10	1/10W 100kΩ
R327	117-1041-10	1/10W 100kΩ
R328	117-1041-10	1/10W 100kΩ
R329	117-1041-10	1/10W 100kΩ
R330	117-1011-10	1/10W 100Ω
R331	117-1011-10	1/10W 100Ω
R332	117-1011-10	1/10W 100Ω
R333	117-1011-10	1/10W 100Ω
R334	117-4731-10	1/10W 47kΩ
R335	032-0092-20	1/10W 2.7kΩ ±1%
R336	032-0092-20	1/10W 2.7kΩ ±1%
R337	032-0092-20	1/10W 2.7kΩ ±1%
R338	032-0092-20	1/10W 2.7kΩ ±1%
R339	032-0092-09	1/10W 47kΩ ±1%
R340	032-0092-09	1/10W 47kΩ ±1%
R341	032-0092-09	1/10W 47kΩ ±1%
R342	032-0092-09	1/10W 47kΩ ±1%
R343	117-1041-10	1/10W 100kΩ
R344	117-1041-10	1/10W 100kΩ
R350	117-3331-10	1/10W 33kΩ
R351	117-3331-10	1/10W 33kΩ
R352	117-1041-10	1/10W 100kΩ
R353	117-1031-10	1/10W 10kΩ
R354	117-1031-10	1/10W 10kΩ
R355	117-1031-10	1/10W 10kΩ
R357	117-0000-00	1/10W 0Ω JW
R358	117-0000-00	1/10W 0Ω JW
R401	117-2721-10	1/10W 2.7kΩ
R402	117-2721-10	1/10W 2.7kΩ

REF No.	PART No.	DESCRIPTION
R403	117-1521-10	1/10W 1.5kΩ
R404	117-1521-10	1/10W 1.5kΩ
R405	117-3321-10	1/10W 3.3kΩ
R406	117-3321-10	1/10W 3.3kΩ
R407	117-8221-10	1/10W 8.2kΩ
R408	117-8221-10	1/10W 8.2kΩ
R409	117-2231-10	1/10W 22kΩ
R410	117-2231-10	1/10W 22kΩ
R411	117-1041-10	1/10W 100kΩ
R412	117-1041-10	1/10W 100kΩ
R413	117-1831-10	1/10W 18kΩ
R414	117-1031-10	1/10W 10kΩ
R415	117-1831-10	1/10W 18kΩ
R416	117-1031-10	1/10W 10kΩ
R419	117-0000-00	1/10W 0Ω JW
R421	117-0000-00	1/10W 0Ω JW
R427	117-1041-10	1/10W 100kΩ
R428	117-1241-10	1/10W 120kΩ
R429	117-1021-10	1/10W 1kΩ
R430	117-1021-10	1/10W 1kΩ
R431	117-1031-10	1/10W 10kΩ
R432	117-1021-10	1/10W 1kΩ
R433	117-2231-10	1/10W 22kΩ
R434	117-1021-10	1/10W 1kΩ
R437	117-0000-00	1/10W 0Ω JW
R438	117-0000-00	1/10W 0Ω JW
R454	117-2431-10	1/10W 24kΩ
R455	117-2431-10	1/10W 24kΩ
R456	117-2431-10	1/10W 24kΩ
R457	117-2431-10	1/10W 24kΩ
R458	117-3631-10	1/10W 36kΩ
R459	117-3631-10	1/10W 36kΩ
R460	117-3631-10	1/10W 36kΩ
R461	117-3631-10	1/10W 36kΩ
R462	117-2231-10	1/10W 22kΩ
R463	117-3311-10	1/10W 330Ω
R464	117-2231-10	1/10W 22kΩ
R465	117-3311-10	1/10W 330Ω
R466	117-2231-10	1/10W 22kΩ
R467	117-3311-10	1/10W 330Ω
R468	117-2231-10	1/10W 22kΩ
R469	117-3311-10	1/10W 330Ω
R470	117-1021-10	1/10W 1kΩ
R471	117-1021-10	1/10W 1kΩ

REF No.	PART No.	DESCRIPTION
R472	117-2231-10	1/10W 22kΩ
R473	117-3311-10	1/10W 330Ω
R474	117-2231-10	1/10W 22kΩ
R475	117-3311-10	1/10W 330Ω
R476	117-1021-10	1/10W 1kΩ
R501	117-1031-10	1/10W 10kΩ
R502	117-2031-10	1/10W 20kΩ
R503	117-2031-10	1/10W 20kΩ
R504	117-1031-10	1/10W 10kΩ
R505	117-4721-10	1/10W 4.7kΩ
R506	117-4721-10	1/10W 4.7kΩ
R507	117-2231-10	1/10W 22kΩ
R508	117-2231-10	1/10W 22kΩ
R509	117-3021-10	1/10W 3kΩ
R510	117-3021-10	1/10W 3kΩ
R511	117-4721-10	1/10W 4.7kΩ
R512	117-4721-10	1/10W 4.7kΩ
R524	117-1531-10	1/10W 15kΩ
R525	117-2721-10	1/10W 2.7kΩ
R526	117-1531-10	1/10W 15kΩ
R527	117-2721-10	1/10W 2.7kΩ
R528	117-4721-10	1/10W 4.7kΩ
R529	117-4721-10	1/10W 4.7kΩ
R601	117-4721-10	1/10W 4.7kΩ
R603	117-1041-10	1/10W 100kΩ
R607	117-4711-10	1/10W 470Ω
R608	117-2231-10	1/10W 22kΩ
R611	117-3321-10	1/10W 3.3kΩ
R612	117-3321-10	1/10W 3.3kΩ
R613	032-0104-64	1/4W 68Ω
R614	117-1031-10	1/10W 10kΩ
R615	117-3321-10	1/10W 3.3kΩ
R616	117-4731-10	1/10W 47kΩ
R617	117-1031-10	1/10W 10kΩ
R618	117-1531-10	1/10W 15kΩ
R619	117-4741-10	1/10W 470kΩ
R620	117-4721-10	1/10W 4.7kΩ
R621	117-2231-10	1/10W 22kΩ
R622	117-4731-10	1/10W 47kΩ
R623	117-4731-10	1/10W 47kΩ
R624	117-1031-10	1/10W 10kΩ
R625	117-5621-10	1/10W 5.6kΩ
R626	117-1521-10	1/10W 1.5kΩ
R627	117-3311-10	1/10W 330Ω

REF No.	PART No.	DESCRIPTION
R628	117-1541-10	1/10W 150kΩ
R629	117-4321-10	1/10W 4.3kΩ
R630	117-8221-10	1/10W 8.2kΩ
R633	117-1831-10	1/10W 18kΩ
R634	117-4731-10	1/10W 47kΩ
R635	117-1031-10	1/10W 10kΩ
R636	117-1021-10	1/10W 1kΩ
R637	117-2241-10	1/10W 220kΩ
R801	117-1031-10	1/10W 10kΩ
R802	117-1231-10	1/10W 12kΩ
R803	117-3321-10	1/10W 3.3kΩ
R804	117-2231-10	1/10W 22kΩ
R805	117-1041-10	1/10W 100kΩ
R806	117-2211-10	1/10W 220Ω
R807	117-2221-10	1/10W 2.2kΩ
R903	117-0000-00	1/10W 0Ω JW
R905	117-0000-00	1/10W 0Ω JW
R907	117-0000-00	1/10W 0Ω JW
R908	117-1041-10	1/10W 100kΩ
R909	117-1041-10	1/10W 100kΩ
R910	117-1041-10	1/10W 100kΩ
R911	117-4731-10	1/10W 47kΩ
R913	117-0000-00	1/10W 0Ω JW
R916	117-0000-00	1/10W 0Ω JW
R918	117-0000-00	1/10W 0Ω JW
R920	032-0104-66	1/4W 470Ω
R922	032-0104-60	1/4W 220Ω
R924	032-0104-66	1/4W 470Ω
R925	117-1031-10	1/10W 10kΩ
R926	032-0104-67	1/4W 1.2kΩ
R927	032-0104-67	1/4W 1.2kΩ
R928	117-0000-00	1/10W 0Ω JW
R929	117-0000-00	1/10W 0Ω JW
R931	117-0000-00	1/10W 0Ω JW
S401	013-5102-00	
S606	013-6100-00	SKHLLB
SUP1	060-0122-10	DSP-201M-S00B
T201	009-9006-85	CHOKE
X1	061-1066-00	7.2MHz
X601	060-1505-50	10MHz
X602	061-3506-90	10MHz
X801	061-3013-00	4.33MHz

Switch PWB section(B2)

REF No.	PART No.	DESCRIPTION
C701	042-0397-00	16V1 μF TAN
C702	042-0397-00	16V1 μF TAN
C703	178-1042-78	0.1 μF
C704	178-1042-78	0.1 μF
C705	178-1042-78	0.1 μF
C706	178-1042-78	0.1 μF
C707	178-1042-78	0.1 μF
C708	042-0416-02	10V10 μF
C709	178-1042-78	0.1 μF
C710	042-0416-02	10V10 μF
C712	178-2232-78	0.022 μF
C713	178-2232-78	0.022 μF
CCT701	050-0122-07	100Ω×4
CCT702	050-0122-07	100Ω×4
CCT703	050-0122-00	10kΩ×4 J
D701	001-0516-00	MA111
D702	001-0516-00	MA111
D703	001-0516-00	MA111
D704	001-0516-00	MA111
D705	001-0516-00	MA111
D706	001-0516-00	MA111
D707	001-7039-00	NSCM310A
D727	001-7030-00	NSPB310A
D728	001-7030-00	NSPB310A
D729	001-7030-00	NSPB310A
D730	001-7011-02	CL-150YG-CD
IC701	051-6018-00	SED1526FEA

REF No.	PART No.	DESCRIPTION
IC702	052-7040-00	M30622MC-193GP
IC703	051-9400-38	M93C46-WMN6T
IR701	060-4008-00	RS171
P701	076-0535-01	15P
Q701	060-4011-00	CPT-182S-C
Q702	125-2004-06	RN1406
Q703	125-2004-06	RN1406
Q704	125-2004-06	RN1406
Q705	102-2712-51	2SC2712G.L
R701	032-0092-35	1/10W 680kΩ±1%
R702	032-0092-83	1/10W 910kΩ±1%
R703	032-0092-76	1/10W 39kΩ±1%
R716	117-2211-10	1/10W 220Ω
R717	117-1511-10	1/10W 150Ω
R718	117-1511-10	1/10W 150Ω
R719	117-4721-10	1/10W 4.7kΩ
R720	117-4721-10	1/10W 4.7kΩ
R721	117-1011-10	1/10W 100Ω
R723	117-1041-10	1/10W 100kΩ
R724	117-3921-10	1/10W 3.9kΩ
R726	117-1221-10	1/10W 1.2kΩ
R727	117-1221-10	1/10W 1.2kΩ
R728	117-1521-10	1/10W 1.5kΩ
R729	117-1521-10	1/10W 1.5kΩ
R730	117-1521-10	1/10W 1.5kΩ
R731	117-1521-10	1/10W 1.5kΩ
R732	117-1221-10	1/10W 1.2kΩ

REF No.	PART No.	DESCRIPTION
R733	117-1221-10	1/10W 1.2kΩ
R734	117-1221-10	1/10W 1.2kΩ
R735	117-1221-10	1/10W 1.2kΩ
R736	117-1521-10	1/10W 1.5kΩ
R737	117-1521-10	1/10W 1.5kΩ
R738	117-1521-10	1/10W 1.5kΩ
R739	117-1521-10	1/10W 1.5kΩ
R740	032-0092-80	1/10W 330Ω±1%
R741	032-0092-80	1/10W 330Ω±1%
R742	032-0092-80	1/10W 330Ω±1%
R743	032-0092-80	1/10W 330Ω±1%
R744	032-0092-80	1/10W 330Ω±1%
R745	032-0092-80	1/10W 330Ω±1%
R746	117-1221-10	1/10W 1.2kΩ
R747	117-1221-10	1/10W 1.2kΩ
R753	117-0000-00	1/10W 0Ω JW
R754	117-0000-00	1/10W 0Ω JW
R756	117-1031-10	1/10W 10kΩ
S701	013-8001-00	JRS0000-1401
S702	013-6504-00	LS9J2M-1YG
S703	013-6504-00	LS9J2M-1YG
S704	013-6504-00	LS9J2M-1YG
S705	013-6504-00	LS9J2M-1YG
S706	013-6504-00	LS9J2M-1YG
S707	013-6504-00	LS9J2M-1YG
S708	013-6504-00	LS9J2M-1YG
S709	013-6504-00	LS9J2M-1YG

REF No.	PART No.	DESCRIPTION
S710	013-6504-00	LS9J2M-1YG
S711	013-6504-00	LS9J2M-1YG
S712	013-6504-00	LS9J2M-1YG
S713	013-6504-00	LS9J2M-1YG
S714	013-6504-00	LS9J2M-1YG

REF No.	PART No.	DESCRIPTION
S715	013-6504-00	LS9J2M-1YG
S716	013-6504-00	LS9J2M-1YG
S717	013-6504-00	LS9J2M-1YG
S718	013-6504-00	LS9J2M-1YG
S719	013-6302-50	SKQMAL

REF No.	PART No.	DESCRIPTION
S720	013-6302-50	SKQMAL
S721	013-6504-00	LS9J2M-1YG
S722	013-6504-00	LS9J2M-1YG
TH701	002-0216-07	DTN-T203S223KS
X701	060-1505-50	10MHz

DCP PWB section(B3)

REF No.	PART No.	DESCRIPTION
J801	074-1145-01	15P

ISO PWB section(B4)

REF No.	PART No.	DESCRIPTION
J201	074-1115-00	OUTLET SOCKET

Mechanism PWB section(B5)

REF No.	PART No.	DESCRIPTION
C1	183-1073-12	6.3V100 μF
C2	183-4763-11	6.3V47 μF
C3	178-1042-78	0.1 μF
C4	176-2201-00	22pF CH
C5	176-1801-00	18pF CH
C6	176-1801-00	18pF CH
C7	176-8201-00	82pF CH
C8	178-1042-78	0.1 μF
C9	178-2242-78	0.22 μF
C10	178-2242-78	0.22 μF
C11	176-4701-00	47pF CH
C12	178-1532-78	0.015 μF
C13	178-1032-78	0.01 μF
C14	178-2722-78	2700pF
C15	178-4722-78	4700pF
C16	176-1201-00	12pF CH
C17	178-4712-78	470pF
C18	178-4712-78	470pF
C19	178-4732-78	0.047 μF
C20	178-4732-78	0.047 μF
C21	178-4732-78	0.047 μF
C22	178-4732-78	0.047 μF
C23	178-1032-78	0.01 μF
C25	183-1073-21	10V100 μF
C26	178-1042-78	0.1 μF
C27	178-1042-78	0.1 μF
C29	178-1042-78	0.1 μF
C30	178-1042-78	0.1 μF
C31	178-1032-78	0.01 μF
C32	178-1032-78	0.01 μF
C33	178-1042-78	0.1 μF

REF No.	PART No.	DESCRIPTION
C34	176-1501-00	15pF CH
C35	176-1501-00	15pF CH
C38	178-1022-78	1000pF
C39	178-1042-78	0.1 μF
C40	178-1042-78	0.1 μF
C41	183-1073-12	6.3V100 μF
C43	183-1073-12	6.3V100 μF
C44	183-4763-11	6.3V47 μF
C45	183-1073-12	6.3V100 μF
C46	178-1032-78	0.01 μF
C47	178-1042-78	0.1 μF
C48	178-1032-78	0.01 μF
C49	176-6801-00	68pF CH
C51	178-1032-78	0.01 μF
C52	178-1032-78	0.01 μF
C54	183-4763-11	6.3V47 μF
C55	178-1042-78	0.1 μF
C56	178-1042-78	0.1 μF
C58	178-1042-78	0.1 μF
C59	178-2222-78	2200pF
D1	001-0563-00	GL380
D2	001-0563-00	GL380
D3	001-0563-00	GL380
D4	001-0330-00	1SS119
IC1	051-5704-00	TA2096FN
IC2	051-6342-00	TC9462F
IC3	051-6026-08	TA2058F
IC4	051-6027-00	BA6283N
L1	010-2155-03	10 μH
L3	010-2199-74	10 μH J
Q1	101-1237-50	2SB1237QR

REF No.	PART No.	DESCRIPTION
Q2	102-2712-00	2SC2712
R1	117-1011-10	1/10W 100Ω
R2	117-1841-10	1/10W 180kΩ
R3	117-1841-10	1/10W 180kΩ
R4	117-2201-10	1/10W 22Ω
R5	117-8231-10	1/10W 82kΩ
R6	117-1041-10	1/10W 100kΩ
R7	117-1041-10	1/10W 100kΩ
R8	117-1031-10	1/10W 10kΩ
R9	117-2221-10	1/10W 2.2kΩ
R10	117-1031-10	1/10W 10kΩ
R12	117-1031-10	1/10W 10kΩ
R13	117-4731-10	1/10W 47kΩ
R15	117-4741-10	1/10W 470kΩ
R17	117-3331-10	1/10W 33kΩ
R18	117-3311-10	1/10W 330Ω
R19	117-3321-10	1/10W 3.3kΩ
R20	117-1031-10	1/10W 10kΩ
R21	117-3321-10	1/10W 3.3kΩ
R22	117-3321-10	1/10W 3.3kΩ
R23	117-3321-10	1/10W 3.3kΩ
R24	117-3321-10	1/10W 3.3kΩ
R26	117-1041-10	1/10W 100kΩ
R27	117-4711-10	1/10W 470Ω
R28	117-2211-10	1/10W 220Ω
R29	117-2211-10	1/10W 220Ω
R30	117-4721-10	1/10W 4.7kΩ
R34	111-2711-91	1/4WS 270Ω
R40	117-3321-10	1/10W 3.3kΩ
X1	061-3038-00	HC49 16.9344MHz

Sensor PWB section(B6)

REF No.	PART No.	DESCRIPTION
Q101	060-0252-01	PT4850F

REF No.	PART No.	DESCRIPTION
Q102	060-0252-01	PT4850F

REF No.	PART No.	DESCRIPTION
Q103	060-0252-01	PT4850F

Limit switch PWB section(B7)

REF No.	PART No.	DESCRIPTION
M1	SMA-151-100	SPINDLE

REF No.	PART No.	DESCRIPTION
M2	SMA-146-100	SLED

REF No.	PART No.	DESCRIPTION
S1	013-7100-00	LIMIT

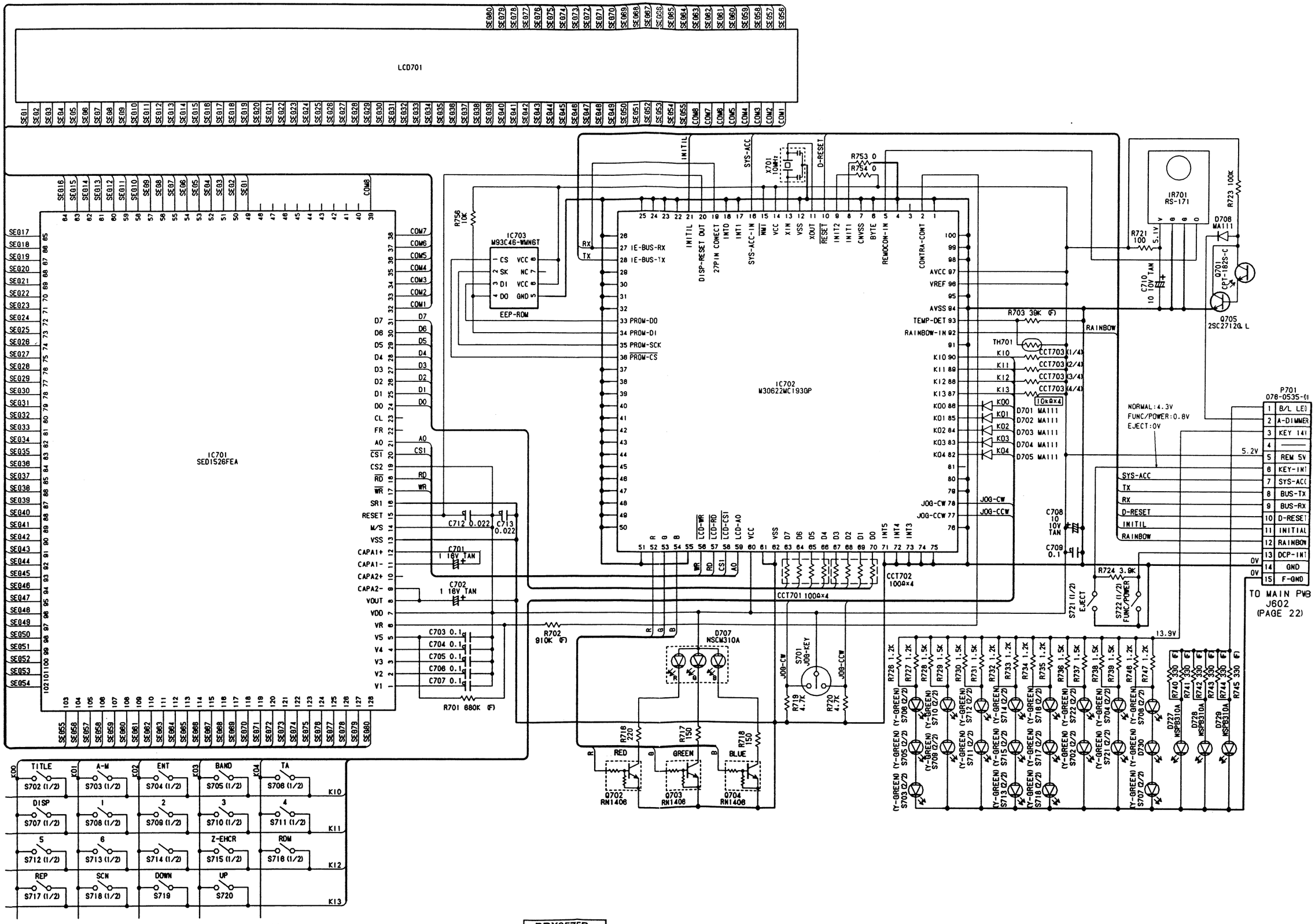
Chucking switch PWB section(B8)

REF No.	PART No.	DESCRIPTION
M3	SMA-147-100	LOADING

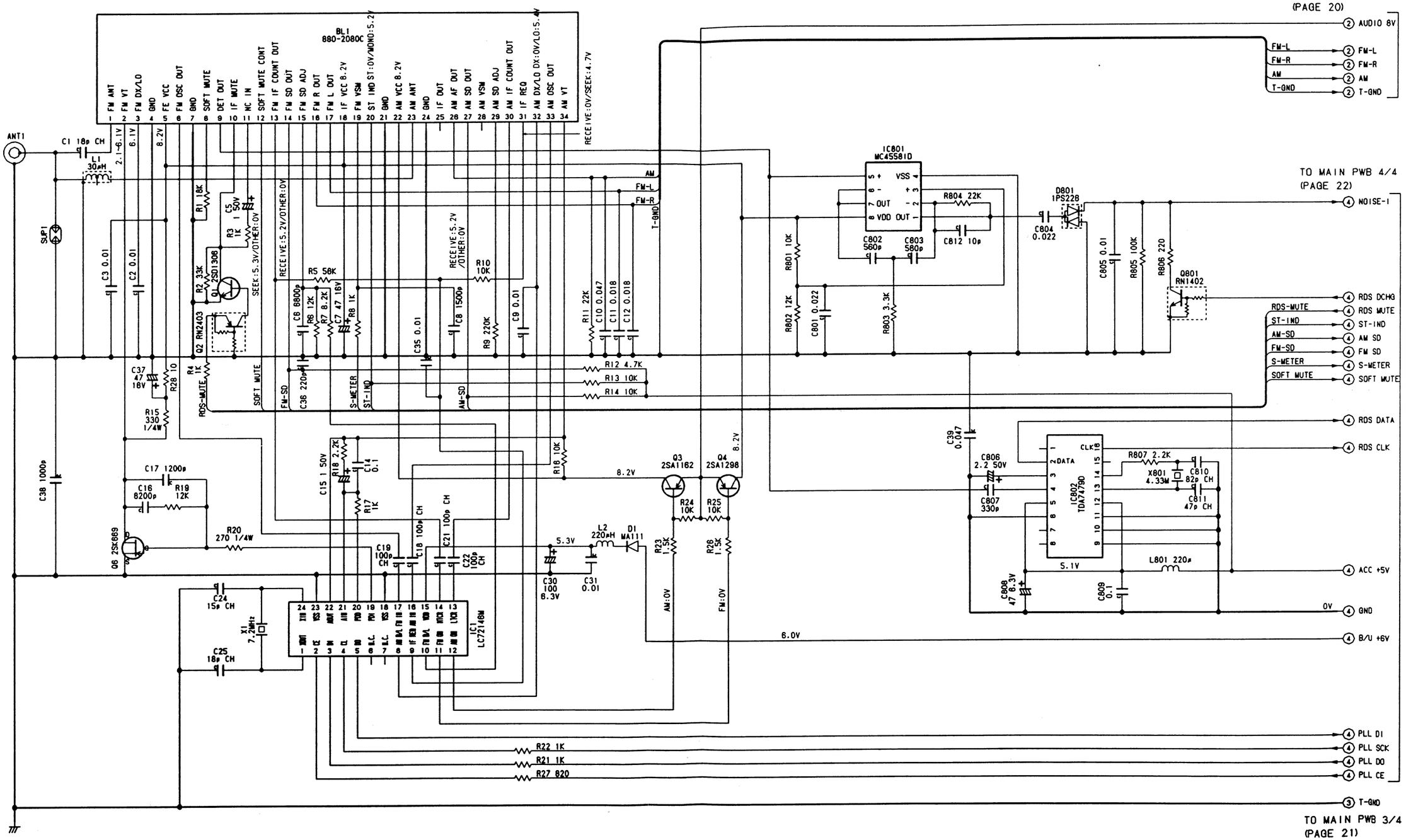
REF No.	PART No.	DESCRIPTION
S2	013-3879-01	CHUCKING

■CIRCUIT DIAGRAM

Switch PWB section

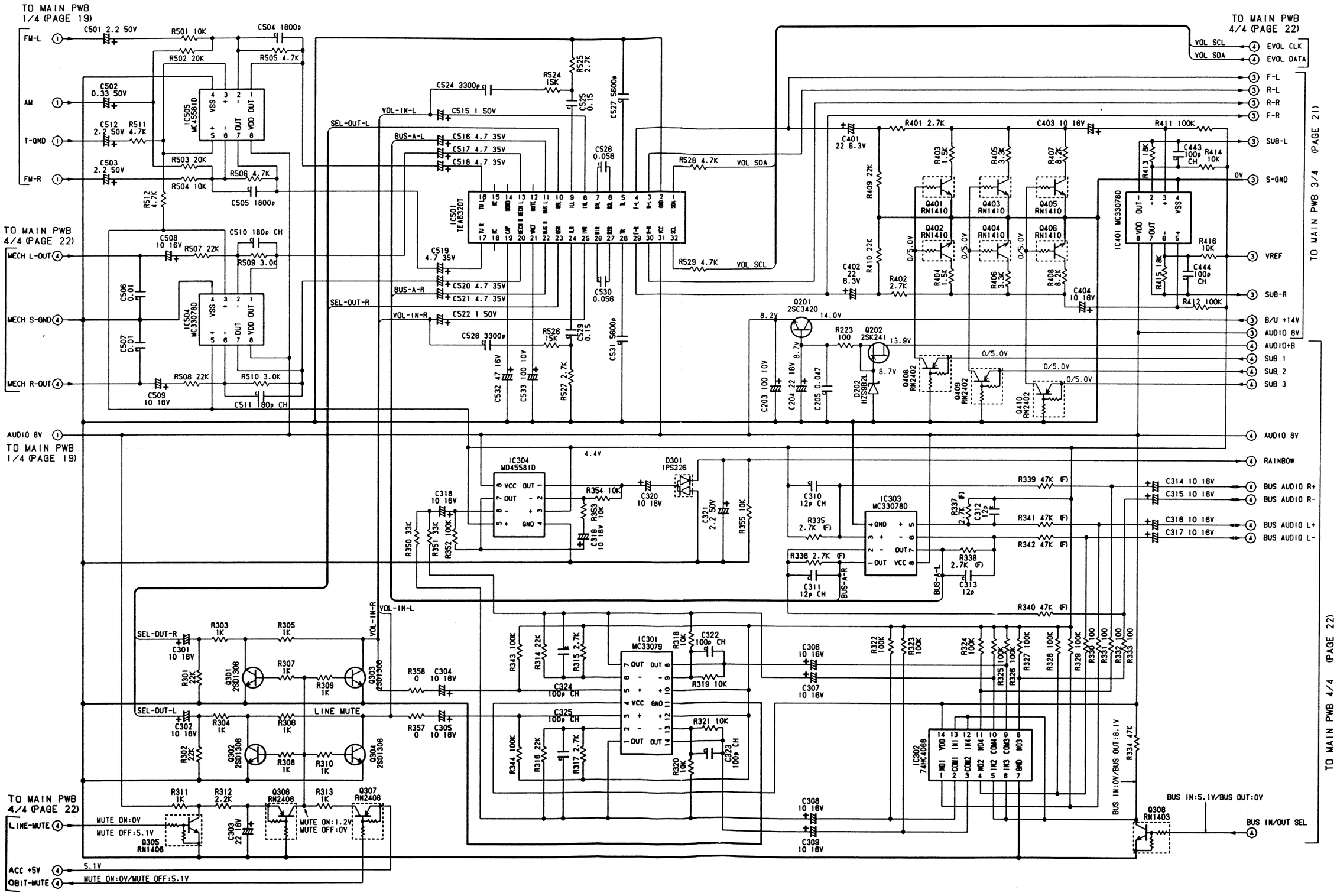


Main PWB section 1/4

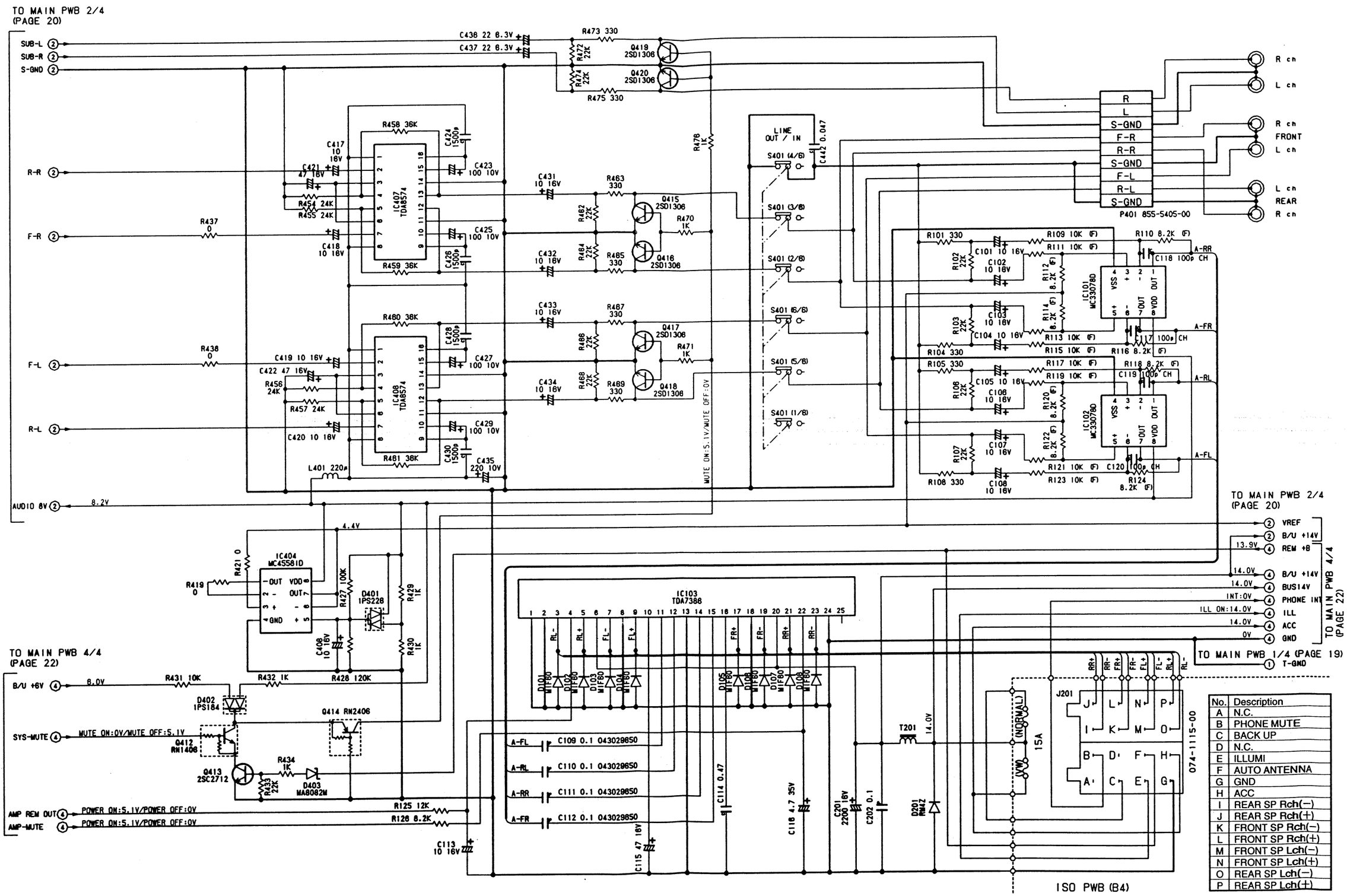


DRX8575Rz
DRX8575RWz

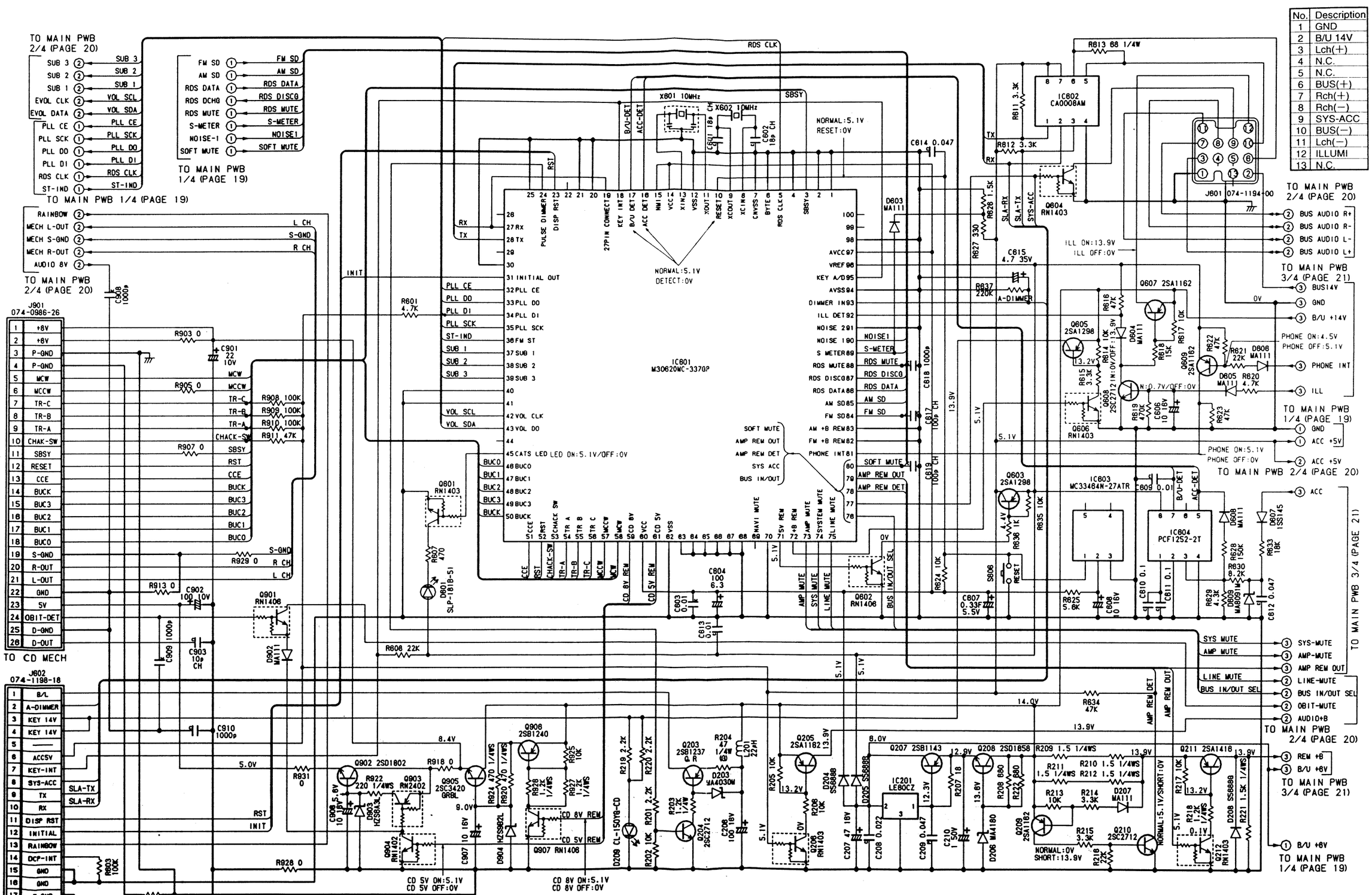
Main PWB section 2/4



Main PWB section 3/4



No.	Description
A	N.C.
B	PHONE MUTE
C	BACK UP
D	N.C.
E	ILLUMI
F	AUTO ANTENNA
G	GND
H	ACC
I	REAR SP Rch(−)
J	REAR SP Rch(+)
K	FRONT SP Rch(−)
L	FRONT SP Rch(+)
M	FRONT SP Lch(−)
N	FRONT SP Lch(+)
O	REAR SP Lch(−)
P	REAR SP Lch(+)

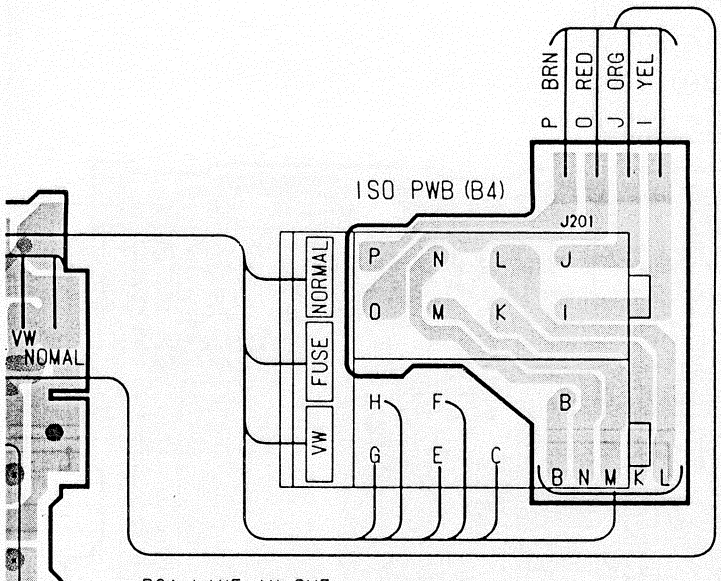


No.	Description
1	GND
2	B/U 14V
3	Lch(+)
4	N.C.
5	N.C.
6	BUS(+)
7	Rch(+)
8	Rch(−)
9	SYS-ACC
10	BUS(−)
11	Lch(−)
12	ILLUMI
13	N.C.

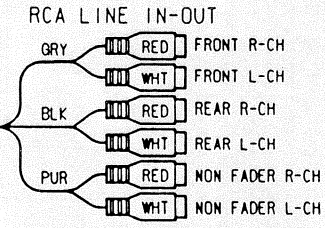
■ PRINTED WIRING BOARD

Main PWB / ISO PWB / Switch PWB section

No.	Description
1	GND
2	B/U 14V
3	Lch(+)
4	N.C.
5	N.C.
6	BUS(+)
7	Rch(+)
8	Rch(−)
9	SYS-ACC
10	BUS(−)
11	Lch(−)
12	ILLUMI
13	N.C.



RCA LINE IN-OUT

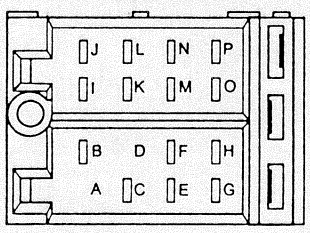


405-00

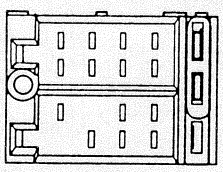
No.	Description
A	N.C.
B	PHONE MUTE
C	BACK UP
D	N.C.
E	ILLUMI
F	AUTO ANTENNA
G	GND
H	ACC

No.	Description
I	REAR SP Rch(−)
J	REAR SP Rch(+)
K	FRONT SP Rch(−)
L	FRONT SP Rch(+)
M	FRONT SP Lch(−)
N	FRONT SP Lch(+)
O	REAR SP Lch(−)
P	REAR SP Lch(+)

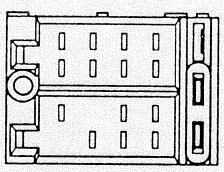
ISO CONNECTOR



The position of fuse



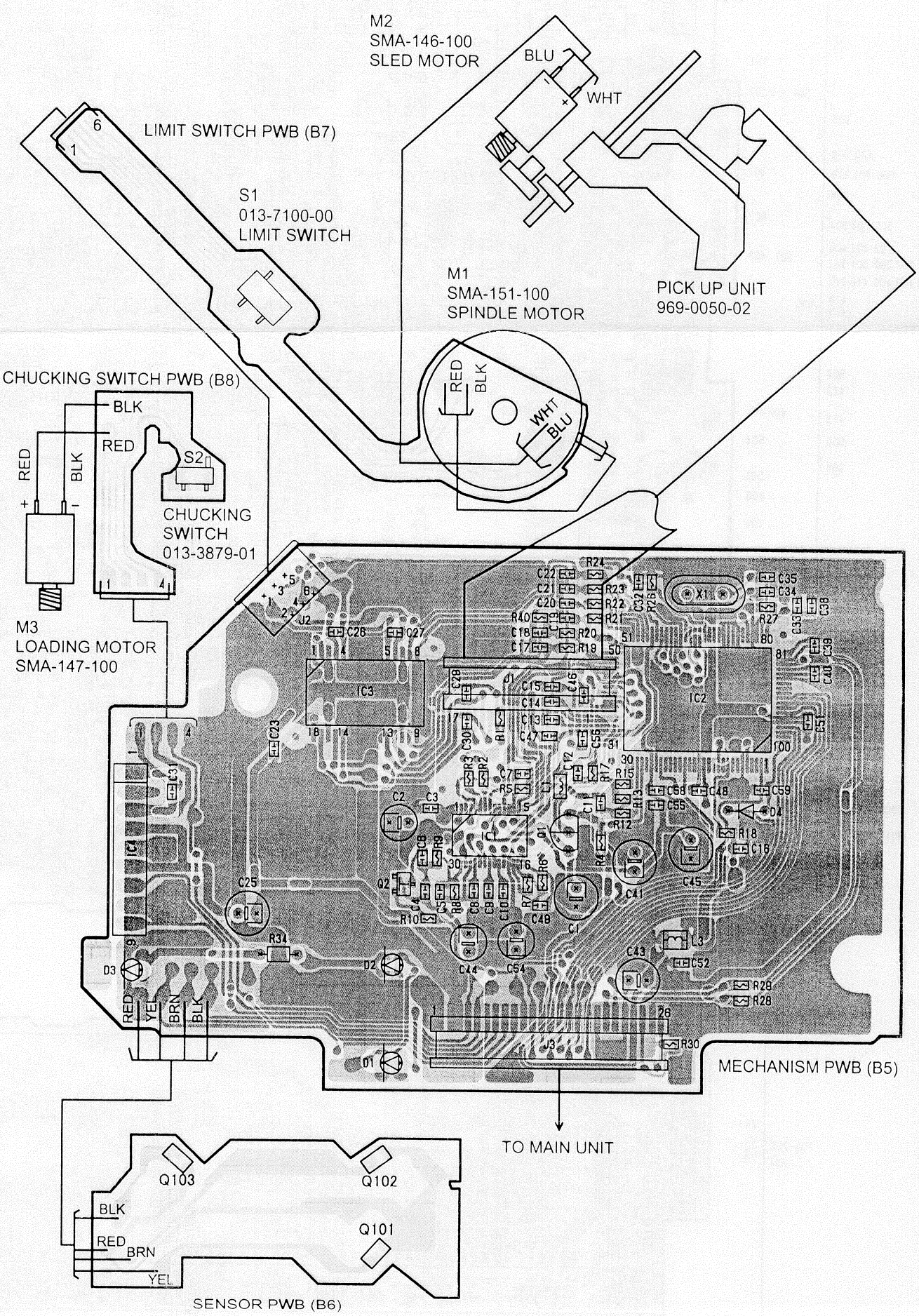
(For other vehicles)



(For VW and Audi)

● THIS MARK MEANS EARTH PATTERN.

CD mechanism section



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■CIRCUIT DIAGRAM

CD mechanism section